	
DOC NUMBER: <b>569-DB7A-AIC-712-004</b>		CLIENT NUMBER: <b>PRD-AIC-DSH-023</b>	
CLIENT: <b>TAKEDA/BAXALTA</b>			
PROJECT: <b>BURITI EPCVM PROJECT</b>			

## DRUG PRODUCT - 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	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV

NUMBER: 569-DB7A-AIC-712-004

CLIENT NR: PRD-AIC-DSH-023

TITLE

SHEET:  
2 de 61

PRESSURE GAUGE SANITARY

REV.:  
2

### DOCUMENT REVIEW CONTROL

Revision	A	0	1	2	3	4	Revision	A	B	0	1	2	3	Revision	A	B	0	1	2	3
Page							Page							Page						
1	X	X	X	X			26			X	X	X		51			X	X	X	
2	X	X	X	X			27			X	X	X		52			X	X	X	
3	X	X	X	X			28			X	X	X		53			X	X	X	
4	X	X	X	X			29			X	X	X		54			X	X	X	
5	X	X	X	X			30			X	X	X		55			X	X	X	
6	X	X	X	X			31			X	X	X		56			X	X	X	
7	X	X	X	X			32			X	X	X		57			X	X	X	
8	X	X	X	X			33			X	X	X		58			X	X	X	
9	X	X	X	X			34			X	X	X		59			X		X	
10	X	X	X	X			35			X	X	X		60					X	
11	X	X	X	X			36			X	X	X		61					X	
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	X		71						
22		X	X	X			47			X	X	X		72						
23		X	X	X			48			X	X	X		73						
24		X	X	X			49			X	X	X		74						
25		X	X	X			50			X	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-DB7A-AIC-712-004

CLIENT NR: PRD-AIC-DSH-023

TITLE

PRESSURE GAUGE SANITARY

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## REFERENCE DOCUMENTS

7A-Z-0-2-01	P&I DIAGRAM - DRUG PRODUCT - BUFFER PREP
7A-Z-0-2-02	P&I DIAGRAM - DRUG PRODUCT - FORMULATION
7A-Z-0-2-03	P&I DIAGRAM - DRUG PRODUCT - STERILE FILTRATION, FIL-3901
7A-Z-0-2-08	P&I DIAGRAM - DRUG PRODUCT - LYOPHILIZER Nº1, LYO-1105
7A-Z-0-2-09	P&I DIAGRAM - DRUG PRODUCT - LYOPHILIZER Nº2, LYO-1106
7A-Z-0-2-20	P&I DIAGRAM - DRUG PRODUCT - CIP CLEANING CHEMICAL STORAGE (TOTES) & DIST.
7A-Z-0-2-21	P&I DIAGRAM - DRUG PRODUCT - CIP SYSTEM, CIP-7701
7A-Z-0-2-28	P&I DIAGRAM - DRUG PRODUCT - CLEAN STEAM - DISTRIBUTION
7A-Z-0-2-34	P&I DIAGRAM - DRUG PRODUCT - LIQ. NITROGEN RECEIVING, STORAGE, & DISTRIBUTION
7A-Z-0-2-36	P&I DIAGRAM - DRUG PRODUCT - CLEAN COMPRESSED AIR - DISTRIBUTION
PRD-AIC-LIS-009	DRUG PRODUCT - PCS - INSTRUMENT INDEX
PRD-PIP-TSP-501	PIPE CLASS AND SPECIFICATION - TECHNICAL SPECIFICATION
PRD-AIC-LIS-046	INTEGRATED PROJECT SERVICES - INSTRUMENT SUGGESTED SUPPLIER LIST

## GENERAL NOTES

- 1- Provide calibration certificate issued by INMETRO or by organ accredited by it.
- 2- The identification plates must be made of AISI 304 stainless steel permanently attached to the instruments with a tag and serial number. The serial number of the instrument, when possible, can be recorded on the body itself.
- 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

2- ADDED INSTRUMENT: PI-900209 / PI-900109 / PI-430000

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 4 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110203			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-04			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0S-110202-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 @ 10.0 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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 5 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110205			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-04			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0R-110203-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 @ 10.0 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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 6 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110501			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0S-110517-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 7 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110502			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0S-110518-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE <b>PRESSURE GAUGE SANITARY</b>						SHEET: <b>8 de 61</b>	
						REV.: <b>2</b>	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110503			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GW0S-110519-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-		1,4	°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-		2,5	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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.



 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 9 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110504			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0R-110520-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: <b>10 de 61</b>	
<b>PRESSURE GAUGE SANITARY</b>						REV.: <b>2</b>	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110505			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-CAP-700016-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 @ 10.0 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		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		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 STATE	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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 				
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023				
TITLE						SHEET: 11 de 61		
PRESSURE GAUGE SANITARY						REV.: 2		
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110506				
	2	SERVICE		GASEOUS NITROGEN FROM DISTRIBUTION - LYO FREEZE DRYER				
	3	P&ID		7A-Z-0-2-08				
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1/2"-GNP-110527-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		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		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 STATE		NITROGEN		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 (%)		NOT				
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT				
44		M.M. / Z / Cp/Cv		... / ... / ...				
49		MANUFACTURER		WIKA OR SILMILAR				
50	MODEL							





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 12 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110507			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GW0R-110522-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 13 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110508			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GW0S-110523-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 @ 10.0 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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 14 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110509			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-110521-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 15 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110510			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GW0R-110524-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.







 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 16 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110601			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-08			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0S-110617-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.



 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 17 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110602			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0S-110618-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 18 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110603			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GW0S-110619-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 19 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110604			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0R-110620-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	1,4	°C
38		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 20 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110605			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY FROM LYO FREEZE DRYER			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1"-CAP-110613-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 @ 10.0 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	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		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 STATE	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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 21 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110606			
	2	SERVICE		GASEOUS NITROGEN FROM DISTRIBUTION - LYO FREEZE DRYER			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1/2"-GNP-110627-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		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		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 STATE	NITROGEN		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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 22 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110607			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GW0R-110622-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 23 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110608			
	2	SERVICE		3/4"-GW0S-110619-CS1-CC			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	-			
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.







 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 24 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110609			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GW0R-110621-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.



 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 25 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-110610			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-09			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-GW0R-110624-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: 26 de 61	
<b>PRESSURE GAUGE SANITARY</b>						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-380101			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY			
	3	P&ID		7A-Z-0-2-01			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1/2"-CAP-700007-SS1-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 @ 10.0 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	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		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 STATE	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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 27 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER			PI-390101		
	2	SERVICE			CLEAN COMPRESSED AIR SUPPLY		
	3	P&ID			7A-Z-0-2-02		
	4	PIPE LINE	EQUIPMENT NUMBER		7A-1/2"-CAP-700007-SS1-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 @ 10.0 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	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			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 STATE		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 (%)			NOT		
43		SOLIDIFIES AT ROOM TEMPERATURE			NOT		
44		M.M. / Z / Cp/Cv			... / ... / ...		
49	MANUFACTURER			WIKA OR SILMILAR			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 28 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-380202			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-01			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-GW0S-9800188-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 29 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-380203			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-01			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-GW0R-9800189-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 30 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-390102			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-GW0S-9800184-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 31 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-390103			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-GW0S-9800185-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.







 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 32 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-390202			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-GW0S-9800186-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.



 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: 33 de 61	
<b>PRESSURE GAUGE SANITARY</b>						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-390203			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-GW0R-9800183-CS1-CC	-		
	5	EQUIPMENT MATERIAL / PIPE		ASTM A270 Gr. TP316L			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (Mín.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE 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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	1,4	°C
38		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	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 OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 34 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-390201			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY			
	3	P&ID		7A-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1/2"-CAP-700026-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 @ 10.0 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		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		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 STATE	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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: 35 de 61	
<b>PRESSURE GAUGE SANITARY</b>						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-390301			
	2	SERVICE		CLEAN COMPRESSED AIR SUPPLY			
	3	P&ID		7A-Z-0-2-02			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-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 @ 10.0 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		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		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 STATE	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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 36 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-430002			
	2	SERVICE		DOUBLE DIAPHRAGM PUMP OUTPUT PRESSURE 7A-BD-4301			
	3	P&ID		7A-Z-0-2-20			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-3/4"-CHE-430003-SS5-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM-A312 Gr. TP304L			
	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 @ 10.0 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		1/2" NPT WITH SEAL	
	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 STATE	DETERGENT		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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 37 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-430000			
	2	SERVICE		AIR SUPPLY COMP. (INSTRUMENT)			
	3	P&ID		7A-Z-0-2-20			
	4	PIPE LINE	EQUIPMENT NUMBER	3/4"-CA-710013-SS5-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		ASTM-A312 Gr. TP304L			
	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 @ 10.0 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		1/2" NPT WITH SEAL	
	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 STATE	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 (%)		NOT			
	43	SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: 38 de 61	
<b>PRESSURE GAUGE SANITARY</b>						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640109			
	2	SERVICE		COMP. (INSTRUMENT) AIR SUPPLY			
	3	P&ID		7A-Z-0-2-24			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-CA-640119-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		0,02	
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-		-	
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		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 STATE	AIR		GAS	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	-	AMB	°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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 39 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640110			
	2	SERVICE		CHILLED WATER LOOP RETURN			
	3	P&ID		7A-Z-0-2-24			
	4	PIPE LINE	EQUIPMENT NUMBER	3"-GW0R-980091-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	1,4		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	2,5		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 OR SILMILAR				
50	MODEL						

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.







 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 40 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640111			
	2	SERVICE		CHILLED WATER LOOP SUPPLY			
	3	P&ID		7A-Z-0-2-24			
	4	PIPE LINE	EQUIPMENT NUMBER	3"-GW0S-980090-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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	WATER		LIQUID	
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	1,4	°C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	2,5	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 OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.



 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 41 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-640112			
	2	SERVICE		STEAM SUPPLY HIGH PRESSUR			
	3	P&ID		7A-Z-0-2-24			
	4	PIPE LINE	EQUIPMENT NUMBER	1 1/2"-IS8B-790314-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 @ 16 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		
-	25	SEAL DIAPHRAGM		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		YES			
	35	MATERIAL		304SS POLISHED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	1/2" NPT (M)		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
	OPERATING CONDITIONS	36	FLUID	PHYSICAL STATE	WATER		LIQUID
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	-		°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	8		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		-			
	49	MANUFACTURER		WIKA OR SILMILAR			
	50	MODEL					





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE <b>PRESSURE GAUGE SANITARY</b>						SHEET: 42 de 61	
						REV.: <b>2</b>	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650110			
	2	SERVICE		CLEAN STEAM FROM GENERATION TO STERILE FILTRATION - FIL-3901			
	3	P&ID		7A-Z-0-2-28			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-3/4"-SFI-650111-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	0,02		
	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	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		NOT REQUIRED			
	35	MATERIAL		NOT REQUIRED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	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 STATE	CLEAN STEAM		STEAM	
	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 (%)		NOT			
	43	SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 43 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650101			
	2	SERVICE		STEAM SUPPLY HIGH PRESSURE			
	3	P&ID		7A-Z-0-2-27			
	4	PIPE LINE	EQUIPMENT NUMBER	2 1/2"-IS8B-650107-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 @ 16 bar-g	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		YES			
	35	MATERIAL		304SS POLISHED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	1/2" NPT (M)		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATE	AIR		GAS	
	37	MINIMUM TEMPERATURE	NORMAL MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL MAXIMUM	-	-	8	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		NOT			
	44	M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 44 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650102			
	2	SERVICE		LOOP SUPPLY CHILLED WATER			
	3	P&ID		7A-Z-0-2-27			
	4	PIPE LINE	EQUIPMENT NUMBER	2 1/2"-IS8B-650107-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 @ 6 bar-g	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	AIR		GAS	
	37	MINIMUM TEMPERATURE	NORMAL MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL MAXIMUM	-	-	2,5	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		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 45 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650103			
	2	SERVICE		LOOP RETURN CHILLED WATER			
	3	P&ID		7A-Z-0-2-27			
	4	PIPE LINE	EQUIPMENT NUMBER	1 1/2"-GW0R-650122-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		0,02	
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-		-	
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		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 STATE	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		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: 46 de 61	
<b>PRESSURE GAUGE SANITARY</b>						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650104			
	2	SERVICE		AIR SUPPLY COMP. (INSTRUMENT)			
	3	P&ID		7A-Z-0-2-27			
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-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		0,02	
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-		-	
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED		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 STATE	AIR		GAS
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		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 47 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-650111			
	2	SERVICE		CLEAN STEAM SUPPLY TO CIP/SIP STATION, STA-4701			
	3	P&ID		7A-Z-0-2-28			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-3/4"-SFI-650116-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 @ 1.6 bar-g	0,02		
	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	1/2"-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	TAGGING		YES (SEE GENERAL NOTES 2)			
	OPERATING CONDITIONS	36	FLUID	PHYSICAL STATE	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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49		MANUFACTURER		WIKA OR SILMILAR			
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.



 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: 48 de 61	
<b>PRESSURE GAUGE SANITARY</b>						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-700006			
	2	SERVICE		COMPRESSED AIR			
	3	P&ID		7A-Z-0-2-36			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1 1/2"-CAP-700001-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 @ 10 bar-g		0,2	
	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		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		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 STATE	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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 49 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER			PI-700007		
	2	SERVICE			CLEAN COMPRESSED AIR		
	3	P&ID			7A-Z-0-2-36		
	4	PIPE LINE	EQUIPMENT NUMBER		7A-1 1/2"-CAP-700001-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 @ 10 bar-g	0,2	
	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	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			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 STATE		NITROGEN	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 (%)			NOT		
43		SOLIDIFIES AT ROOM TEMPERATURE			NOT		
44		M.M. / Z / Cp/Cv			... / ... / ...		
49	MANUFACTURER			WIKA OR SILMILAR			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 50 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER			PI-700008		
	2	SERVICE			CLEAN COMPRESSED AIR		
	3	P&ID			7A-Z-0-2-36		
	4	PIPE LINE	EQUIPMENT NUMBER		7A-1 1/2"-CAP-700001-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 @ 10 bar-g	0,2	
	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	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			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 STATE		NITROGEN	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 (%)			NOT		
43		SOLIDIFIES AT ROOM TEMPERATURE			NOT		
44		M.M. / Z / Cp/Cv			... / ... / ...		
49	MANUFACTURER			WIKA OR SILMILAR			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 51 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-860006			
	2	SERVICE		NITROGEN UPSTREAM FILTER 7A-FGA-8600-1			
	3	P&ID		7A-Z-0-2-34			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1"-GNP-860001-SS10-N	-		
	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	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		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 STATE	NITROGEN		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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 52 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-860007			
	2	SERVICE		NITROGEN UPSTREAM FILTER 7A-FGA-8600-2			
	3	P&ID		7A-Z-0-2-34			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1"-GNP-860001-SS10-N	-		
	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	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		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 STATE	NITROGEN		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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 53 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-860008			
	2	SERVICE		FILTER DOWNSTREAM NITROGEN 7A-FGA-8600-2			
	3	P&ID		7A-Z-0-2-34			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-1"-GNP-860001-SS10-N	-		
	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	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		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 STATE	NITROGEN		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 (%)		NOT			
43		SOLIDIFIES AT ROOM TEMPERATURE		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						

NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 54 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900102			
	2	SERVICE		STEAM SUPPLY MEDIUM PRESSURE			
	3	P&ID		7A-Z-0-2-06			
	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	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		YES			
	35	MATERIAL		304SS POLISHED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	1/2" NPT (M)		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATE	AIR		GAS	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	-	4	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		NOT			
	44	M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						

## NOTES:





- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.



 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 55 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900104			
	2	SERVICE		LOOP RETURN CHILLED WATER			
	3	P&ID		7A-Z-0-2-06			
	4	PIPE LINE	EQUIPMENT NUMBER	1"-IS4B-900201-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	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	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		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 56 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900106			
	2	SERVICE		LOOP SUPPLY CHILLED WATER			
	3	P&ID		7A-Z-0-2-06			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0S-900105-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	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	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		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 57 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER			PI-900109		
	2	SERVICE			CLEAN STEAM		
	3	P&ID			7A-Z-0-2-06		
	4	PIPE LINE	EQUIPMENT NUMBER		2 1/2"-SFI-650118-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	0,02	
	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			NO		
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION		-	-	
	27	SEAL FILLING FLUID			-		
	28	WET PART MATERIAL			316LSS (SEE GENERAL NOTES 4)		
	29	CAPILLARY LENGTH			NOT REQUIRED		
	30	CAPILLARY MATERIAL			NOT REQUIRED		
	31	PULSATION DAMPER			NOT REQUIRED		
	32	MATERIAL			NOT REQUIRED		
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION		NOT REQUIRED	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 STATE		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			NOT		
44	M.M. / Z / Cp/Cv			... / ... / ...			
49	MANUFACTURER			WIKA OR SILMILAR			
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: <b>569-DB7A-AIC-712-004</b>				CLIENT NR: <b>PRD-AIC-DSH-023</b>			
TITLE						SHEET: 58 de 61	
<b>PRESSURE GAUGE SANITARY</b>						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900202			
	2	SERVICE		STEAM SUPPLY MEDIUM PRESSURE			
	3	P&ID		7A-Z-0-2-05			
	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	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	34	SIPHON TUBE		YES			
	35	MATERIAL		304SS POLISHED			
	36	CONNECTION INSTRUMENT	PROCESS CONNECTION	1/2" NPT (F)	1/2" NPT (M)		
	37	OVERPRESSURE PROTECTOR		NOT REQUIRED			
	38	MATERIAL		NOT REQUIRED			
	39	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	NOT REQUIRED		
	40	TAGGING		YES (SEE GENERAL NOTES 2)			
OPERATING CONDITIONS	36	FLUID	PHYSICAL STATE	AIR		GAS	
	37	MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	-	-	°C
	38	MINIMUM PRESSURE	NORMAL      MAXIMUM	-	-	4	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		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





## NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 59 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900204			
	2	SERVICE		LOOP RETURN CHILLED WATER			
	3	P&ID		7A-Z-0-2-06			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0R-900204-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	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	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		NOT			
44	M.M. / Z / Cp/Cv		... / ... / ...				
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						





NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 60 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER		PI-900206			
	2	SERVICE		LOOP SUPPLY CHILLED WATER			
	3	P&ID		7A-Z-0-2-05			
	4	PIPE LINE	EQUIPMENT NUMBER	2"-GW0S-900205-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	0,02		
	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		NO			
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION	-	-		
	27	SEAL FILLING FLUID		-			
	28	WET PART MATERIAL		316LSS (SEE GENERAL NOTES 4)			
	29	CAPILLARY LENGTH		NOT REQUIRED			
	30	CAPILLARY MATERIAL		NOT REQUIRED			
	31	PULSATION DAMPER		NOT REQUIRED			
	32	MATERIAL		NOT REQUIRED			
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION	NOT REQUIRED	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 STATE	AIR		GAS
37		MINIMUM TEMPERATURE	NORMAL      MAXIMUM	-	-	-	°C
38		MINIMUM PRESSURE	NORMAL      MAXIMUM	-	-	4	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		NOT			
44		M.M. / Z / Cp/Cv		... / ... / ...			
49	MANUFACTURER		WIKA OR SILMILAR				
50	MODEL						

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.

 				 			
NUMBER: 569-DB7A-AIC-712-004				CLIENT NR: PRD-AIC-DSH-023			
TITLE						SHEET: 61 de 61	
PRESSURE GAUGE SANITARY						REV.: 2	
GENERAL	1	INSTRUMENT TAG NUMBER			PI-900209		
	2	SERVICE			CLEAN STEAM		
	3	P&ID			7A-Z-0-2-05		
	4	PIPE LINE	EQUIPMENT NUMBER		2 1/2"-SFI-650119-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	0,02	
	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			NO		
	26	CONNECTION INSTRUMENT	PROCESS CONNECTION		-	-	
	27	SEAL FILLING FLUID			-		
	28	WET PART MATERIAL			316LSS (SEE GENERAL NOTES 4)		
	29	CAPILLARY LENGTH			NOT REQUIRED		
	30	CAPILLARY MATERIAL			NOT REQUIRED		
	31	PULSATION DAMPER			NOT REQUIRED		
	32	MATERIAL			NOT REQUIRED		
	33	CONNECTION INSTRUMENT	PROCESS CONNECTION		NOT REQUIRED	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 STATE		STEAM		VAPOR
	37	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	- °C
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	4 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			NOT		
44	M.M. / Z / Cp/Cv			... / ... / ...			
49	MANUFACTURER			WIKA OR SILMILAR			
50	MODEL						

NOTES:

- 1- PROVIDE REAR PROTECTION DISC IN NEOPRENE.