	
DOC NUMBER: 569-DB7A-AIC-741-001		CLIENT NUMBER: PRD-AIC-DSH-028	
CLIENT: TAKEDA/BAXALTA			
PROJECT: BURITI EPCVM PROJECT			

DRUG PRODUCT - DATA SHEET

PRESSURE RELIEF VALVE - SANITARY

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

NUMBER: 569-DB7A-AIC-741-001

CLIENT NR: PRD-AIC-DSH-028

TITLE





SHEET: 2 de 5

PRESSURE RELIEF VALVE - SANITARY

REV.: 1

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				26							51						
2	X	X	X				27							52						
3	X	X	X				28							53						
4	X	X	X				29							54						
5	X	X	X				30							55						
6							31							56						
7							32							57						
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NUMBER: 569-DB7A-AIC-741-001		CLIENT NR: PRD-AIC-DSH-028	
TITLE			SHEET: 3 de 5
PRESSURE RELIEF VALVE - SANITARY			REV.: 1
REFERENCE DOCUMENTS			

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
PRD-AIC-LIS-009	DRUG PRODUCT - BMS - INSTRUMENT INDEX
PRD-PIP-TSP-501	PIPE CLASS AND SPECIFICATION - TECHNICAL SPECIFICATION
PRD-AIC-LIS-046	INTEGRATED PROJECT SERVICES - INSTRUMENT SUGGESTED SUPPLIER LIST





GENERAL NOTES

- 1- The identification plates must be supplied in AISI 304 stainless steel, permanently attached to the valve body, with engraving of the respective "TAGs", model, body material, manufacturer, diameter, type, pressure class, Cv and serial number. The serial number of the instrument, when possible, can be recorded on the body itself.
- 2- In the certified drawings of the relief and safety valves, the spring pressure range shall be included. The valve shall allow adjustments of: $\pm 10\%$ at the specified relief pressure, for pressures ≤ 18 kgf/cm², and $\pm 5\%$ at the specified relief pressure, for pressures > 18 kgf/cm².
- 3- The spring adjustment screw must be protected by a (threaded) hood.
- 4- The sizing of relief and safety valves will be in accordance with ASME section I and section VIII for industrial valve and ASME BPE for sanitary valves in its latest edition.
- 5- The manufacturer must send the valve calculation memory.
- 6- The parts in contact with the process fluid must have mechanical sanding internally standard ASME BPE SF4 with Max Ra. 0.38 μ m according to table SF-2.4-1 - ASME BPE-2019 and external. Ra max. 0.8 μ m.

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

 			 		
NUMBER: 569-DB7A-AIC-741-001			CLIENT NR: PRD-AIC-DSH-028		
TITLE					SHEET: 4 de 5
PRESSURE RELIEF VALVE - SANITARY					REV.: 1
GENERAL	1	INSTRUMENT TAG NUMBER		7A-PSV-110501	
	2	SERVICE		GASEOUS NITROGEN FROM DISTRIBUTION - LYO-1105	
	3	P&ID		7A-Z-0-2-08	
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GNP-110527-SS3-NI	-
	5	SAFETY / RELIEF		SAFETY	
	6	NOZZLE (TOTAL / REDUCED)		TOTAL	
	7	TYPE		ANGLE	
	8	CASTLE (OPEN / CLOSED)		OPEN	
	9	CERTIFICATES		(SEE GENERAL NOTES 4)	
	10				
CONNECTIONS	11	ENTRY DIAMETER	CLASS	BY MANUFACTURER (NOTE GER. 4, 5)	TC - ASME BPE (NOTE GER. 6)
	12	OUTPUT DIAMETER	CLASS	BY MANUFACTURER (NOTE GER. 4, 5)	TC - ASME BPE (NOTE GER. 6)
	13	FLANGE FACE FINISH		-	
	14				
	15				
MATERIALS	16	BODY	CASTLE	SS316L	SS316L
	17	SEAT	DISC	SS316L	SS316L
	18	GUIDES	RING	SS316L	SS316L
	19	SPRING	BELLOWS	BY MANUFACTURER (NOTE GER. 2)	
	20	ROD		BY MANUFACTURER	
	21				
ACCESSORIES	22	HOOD (THREADED / SCREWED)		THREADED	
	23	LEVER: SIMPLE / EASED		SIMPLE	
	24	LOCK FOR HYDROSTATIC TEST		YES	
	25	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 1)	
	26				
BASE	27	SIZING CODE		(SEE GENERAL NOTES 4)	
	28	SIZING CRITERION		LOCK	
	29				
OPERATING CONDITIONS	30	FLUID	PHYSICAL STATE	NITROGEN	GAS
	31	FLOW CAPACITY		3 Nm³/h	
	32	OPERATING PRESSURE	RELIEF PRESSURE	4,0 bar-g	bar-g
	33	NORMAL TEMPERATURE	RELIEF TEMPERATURE	°C	°C
	34	DESIGN PRESSURE	DESIGN TEMPERATURE	bar-g	°C
	35	CONSTANT COUNTERPRESSURE		bar-g	
	36	VARIABLE COUNTERPRESSURE		bar-g	
	37	COUNTERPRESSURE DEVELOPED		bar-g	
	38	OVERPRESSURE		10 %	
	39	DENSITY @ RELIEF CONDITIONS	VISCOSITY @ RELIEF CONDITIONS	kg/m³	Cp
	40	MOLECULAR WEIGHT			
	41	Cp/Cv	FACTOR Z		
	42	ATMOSPHERIC PRESSURE		1 atm	
	43				
VALVE	44	SPRING ADJUSTMENT PRESSURE		BY MANUFACTURER (SEE GENERAL NOTES 2)	
	45	SPRING RANGE		BY MANUFACTURER (SEE GENERAL NOTES 2)	
	46	CALCULATED AREA	SELECTED AREA	BY MANUFACTURER in²	BY MANUFACTURER
	47	NAME OF THE ORIFICE		BY MANUFACTURER	
	48				
	49	MANUFACTURER		PENTAIR SÜDMO (TETRALON) OU SIMILAR	
	50	MODEL		-	

NOTES:

 			 		
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TITLE					SHEET: 5 de 5
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GENERAL	1	INSTRUMENT TAG NUMBER		7A-PSV-110601	
	2	SERVICE		GASEOUS NITROGEN FROM DISTRIBUTION - LYO-1106	
	3	P&ID		7A-Z-0-2-09	
	4	PIPE LINE	EQUIPMENT NUMBER	1/2"-GNP-110627-SS3-NI	-
	5	SAFETY / RELIEF		SAFETY	
	6	NOZZLE (TOTAL / REDUCED)		TOTAL	
	7	TYPE		ANGLE	
	8	CASTLE (OPEN / CLOSED)		OPEN	
	9	CERTIFICATES		(SEE GENERAL NOTES 4)	
	10				
CONNECTIONS	11	ENTRY DIAMETER	CLASS	BY MANUFACTURER (NOTE GER. 4, 5)	TC - ASME BPE (NOTE GER. 6)
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	23	LEVER: SIMPLE / EASED		SIMPLE	
	24	LOCK FOR HYDROSTATIC TEST		YES	
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BASE	27	SIZING CODE		(SEE GENERAL NOTES 4)	
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