







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
Α	31MAR2021	60% DD ISSUE	JHA	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









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REV.:

PRESSURE RELIEF VALVE - SANITARY

DOCUMENT REVIEW CONTROL

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

PRESSURE RELIEF VALVE - SANITARY

REFERENCE DOCUMENTS

7A-Z-0-2-08 P&I DIAGRAM - DRUG PRODUCT - LYOPHILIZER №1, LYO-1105 7A-Z-0-2-09 P&I DIAGRAM - DRUG PRODUCT - LYOPHILIZER №2, 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: ± 10 % at the specified relief pressure, for pressures ≤ 18 kgf/cm2, and ± 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 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









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PRESSURE RELIEF VALVE - SANITARY

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						1			
	1	INSTRUMENT TAG NUMBER		7A-PSV-110501					
	2	SERVIÇE		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 -					
GENERAL	5	SAFETY / RELIEF		SAFETY					
	6	NOZZLE (TOTAL / REDUCED)		TOTAL					
ত	7	TYPE		ANGLE					
	8	CASTLE (OPEN / CLOSED)		OPEN					
	9	CERTIFICATES		(SEE GENERAL NOTES 4)					
	10			·	<u> </u>				
	11	ENTRY DIAMETER	CLASS	BY MANUFACTURER (NOTE GER	E (NOTE GER. 6)				
CONNECTIONS	12	OUTPUT DIAMETER	CLASS	BY MANUFACTURER (NOTE GER	. 4, 5) TC - ASME BPE	E (NOTE GER. 6)			
CTI	13	FLANGE FACE FINISH		·	-	,			
NNE	14								
ŏ	15								
\Box	_	BODY	CASTLE	SS316L	SS	316L			
ြွ		SEAT	DISC	SS316L		316L			
MATERIALS		GUIDES	RING	SS316L		316L			
TER		SPRING	BELLOWS	BY MANUFACTURER (NOTE GE	R. 2)				
MA	20	ROD		•	NUFACTURER				
	21								
		HOOD (THREADED / SCREWED	0)	THREADED					
SIES		LEVER: SIMPLE / EASED	,	SIMPLE					
SOF		LOCK FOR HYDROSTATIC TES	T		YES				
ACCESSORIES		IDENTIFICATION PLATE		YES (SEE G	ENERAL NOTES 1)				
A	26			, ,					
		SIZING CODE		(SEE GEN	IERAL NOTES 4)				
BASE	28	SIZING CRITERION			LOCK				
/B	29								
		FLUID	PHYSICAL STATE	NITROGEN	G	AS			
	31	FLOW CAPACITY		3 Nm³/h					
	_	OPERATING PRESSURE	RELIEF PRESSURE	4,0 bar-g		bar-g			
		NORMAL TEMPERATURE	RELIEF TEMPERATURE	°C		c			
SNC		DESIGN PRESSURE	DESIGN TEMPERATURE	bar-g		°C			
NDITIONS		CONSTANT COUNTERPRESSU	I RE	bar-g					
NO:		VARIABLE COUNTERPRESSUR		bar-g					
OPERATING COI		COUNTERPRESSURE DEVELO		bar-g					
ATI		OVERPRESSURE		10 %					
ΈR.			VISCOSITY @ RELIEF CONDITIONS	kg/m³	Ср				
片		MOLECULAR WEIGHT	1 3 11 5	<u> </u>	I	•			
		Cp/Cv	FACTOR Z						
		ATMOSPHERIC PRESSURE	l	1 atm					
	43				I				
Н	44	SPRING ADJUSTMENT PRESSU	JRE	BY MANUFACTURER (SEE GENERAL NOTES 2)					
	45	SPRING RANGE		BY MANUFACTURER (SEE GENERAL NOTES 2)					
VALVE	46	CALCULATED AREA	SELECTED AREA	BY MANUFACTURER in ² BY MANUFACTURER					
		NAME OF THE ORIFICE	I	BY MANUFACTURER					
	48			3					
Н		MANUFACTURER		PENTAIR SÜDMO (TETRALON) OU SIMILAR					
		MODEL			· · · · · · · · · · · · · · · · · · ·				
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PRESSURE RELIEF VALVE - SANITARY

REV.:

FK	E3.	SURE RELIEF VALVE -	SANITART		1 REV.:				
	1	INSTRUMENT TAG NUMBER		7A-PSV-110601					
GENERAL	2	SERVIÇE		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		SAFE SAFE	ТҮ				
		NOZZLE (TOTAL / REDUCED)		TOTAL					
<u>1</u> 5		TYPE		ANGLE					
		CASTLE (OPEN / CLOSED)		OPEN					
		CERTIFICATES		(SEE GENERAL NOTES 4)					
	10								
	11	ENTRY DIAMETER	CLASS	BY MANUFACTURER (NOTE GER. 4, 5)	TC - ASME BPE (NOTE GER. 6)				
SNO		OUTPUT DIAMETER	CLASS	BY MANUFACTURER (NOTE GER. 4, 5)	TC - ASME BPE (NOTE GER. 6)				
CONNECTIONS		FLANGE FACE FINISH		-	,				
N N	14								
ö	15								
Н		BODY	CASTLE	SS316L	SS316L				
ا رر		SEAT	DISC	SS316L	SS316L				
MATERIALS		GUIDES	RING	SS316L	SS316L				
삠		SPRING	BELLOWS	BY MANUFACTURER (NOTE GER. 2)					
ΜĀ		ROD		BY MANUFA	CTURER				
	21								
Н		HOOD (THREADED / SCREWED	D)	THREADED					
ES		LEVER: SIMPLE / EASED	-,	SIMPLE					
SOR		LOCK FOR HYDROSTATIC TES	т	YES					
ACCESSORIES		IDENTIFICATION PLATE	·	YES (SEE GENER					
AC	26	IDENTIFICATION TEXTE		TES (SEE SEIVER	VIL NOTEO 1)				
Н		SIZING CODE		(SEE GENERAL	NOTES 4)				
BASE		SIZING CRITERION		LOCI					
B/A	29								
H		FLUID	PHYSICAL STATE	NITROGEN	GAS				
	31	FLOW CAPACITY	1	3 Nm³/h					
	32	OPERATING PRESSURE	RELIEF PRESSURE	4,0 bar-g	bar-g				
ا پر ا	33	NORMAL TEMPERATURE	RELIEF TEMPERATURE	°C	°C				
SITIONS	34	DESIGN PRESSURE	DESIGN TEMPERATURE	bar-g	°C				
	35	CONSTANT COUNTERPRESSU	IRE	bar-g					
$\frac{\overline{z}}{0}$		VARIABLE COUNTERPRESSUR		bar-g					
9		COUNTERPRESSURE DEVELO		bar-g					
OPERATING COND		OVERPRESSURE		10 %					
ĔR/	39	DENSITY @ RELIEF CONDITIONS	VISCOSITY @ RELIEF CONDITIONS	kg/m³	Ср				
ㅁ		MOLECULAR WEIGHT		,	·				
	41	Cp/Cv	FACTOR Z						
	42	ATMOSPHERIC PRESSURE	1	1 atm					
	43								
H		SPRING ADJUSTMENT PRESSI	URE	BY MANUFACTURER (SEE GENERAL NOTES 2)					
	45	SPRING RANGE		BY MANUFACTURER (SEE GENERAL NOTES 2)					
VALVE		CALCULATED AREA	SELECTED AREA	BY MANUFACTURER in ² BY MANUFACTURER					
*		NAME OF THE ORIFICE	1	BY MANUFACTURER					
	48								
H		MANUFACTURER		PENTAIR SÜDMO (TETRALON) OU SIMILAR					
		MODEL		-					
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