

569-DB7A-AIC-732-001







DOC NUMBER:

CLIENT NUMBER:

PRD-AIC-DSH-025

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

DRUG PRODUCT - DATA SHEET PRESSURE REDUCING VALVE - SANITARY

2	26JAN2022	ISSUED FOR CONSTRUCTION UPDATED AS PER NOTES	MAB	MAF	RSP
1	17NOV2021	ISSUED FOR CONSTRUCTION UPDATED AS PER NOTES	MAB	MAF	RSP
0	13SEP2021	ISSUED FOR CONSTRUCTION	MAB	MAF	RSP
Α	16-mar-21	30% DD ISSUE	JHA	MAF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









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PRESSURE REDUCING VALVE - SANITARY

REV.: 2

DOCUMENT	REVIEW	CONTROL

Revision	Α	0	1	2	3	4	Revision	Α	В	0	1	2	3	Revision	Α	В	0	1	2	L
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2	Х	Χ	Х	Х			27							52						
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9	Х	Χ	Х	Х			34							59						T
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PRESSURE REDUCING VALVE - SANITARY

REV.: **2**

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-0-2-28 P&I DIAGRAM - DRUG PRODUCT - CLEAN STEAM DISTRIBUTION

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

- 2- The manufacturer must send the valve calculation memory.
- 3- The maximum permissible noise level is 82 dbA to 1 mt from the valve and must comply with ISA 75.17 and IEC 60534-8-4 standards.
- 4- If necessary the manufacturer should offer silencer along with the valve.
- 5- The maximum and minimum flow rates to be controlled should be limited to 90 % and 10%, respectively, of the available stroke of the control valve.
- 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

REVISION 2 - NOTES

1 - ADEQUATE TAG INSTRUMENT: PCV-650110 TO PCV-650111









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PRESSURE REDUCING VALVE - SANITARY

								2			
	1	INSTRUMENT TAG NUMBER				PC	:V-380101				
	2	SERVICE			CLEAN COMPRESSED AIR SUPPLY - PORTABLE VESSEL TQ-380						
	3	P&ID			7A-Z-0-2-01						
7	4	PIPE LINE	EQUIPMENT NUM	BER	7A-1/2"-CAP-380104-SS10-NI -						
ER/	5	EQUIPMENT MATERIAL / PIPE				ASTM A	I 270 Gr. TP316L				
GENERAL		INTERNAL DIAMETER LINE	LINE THICKNESS		12.7	mm		mm			
O	-	FUNCTION	I - THOTALEGO		•		l PRESSURE LIMITATI				
								- ON			
	_	CERTIFICATES				(/\	IOTES 3)				
	9										
		BODY TYPE					/ SELF OPERATED				
	11	BODY MATERIAL + COATING					SS1016L				
7	12	PLUG MATERIAL + COATING				S	SS1016L				
₹ K	13	SEED MATERIAL + COATING				S	SS1016L				
Œ	14	CHARACTERISTIC					=%				
< 0	15	ENTRY DIAMETER	OUTPUT DIAMETE	ĒR .	12,7 mm	(NOTE 1)	12,7 mi	m (NOTE 1)			
AN	16	16/nov/21	•		TC - A	SME BPE-2019) (SEE GENERAL NO	TES 6)			
BODY AND INTERNAL	17	LEAKAGE CLASS					IV				
B	18	CASTLE TYPE				S7	ANDARD				
	19	RANGEABILITY				(SEE GEN	IERAL NOTES 5)				
	20					,	· · · · · · · · · · · · · · · · · · ·				
	-	TYPE				SPRING	:/DIAPHRAGM				
		PILOT				0.7	YES				
					-						
œ		AIR SUPPLY AVAILABLE				EVEEDMAL TO	-				
ACTUATOR		TYPE OF PRESSURE OUTLET				EXTERNAL TO	THE DOWNSTREAL	<u>и</u>			
Ú	_	DIAPHRAGM MATERIAL					PTFE				
AC		SPRING ACTUATION BAND					NUFACTURER				
	25	CONTROL POINT			0,2 bar-g						
	26	FAILURE CONDITION			CLOSED						
	27										
Ś	30	TAGGING			YES (SEE GENERAL NOTES 1)						
SRIE	31	REGULATOR FILTER			NOT REQUIRED						
SSC	32										
ACCESSORIES	33										
Ä	34										
	35	FLUID	PHYSICAL STATE		CLEAN	AIR	Al	R			
	36	MINIMUM FLOW	NORMAL	MAXIMUM		1,8		Nm³/h			
	37	MINIMUM PRESSURE	NORMAL	MAXIMUM		6		bar-g			
	38	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C			
SNC		DESIGN PRESSURE	DESIGN TEMPERA			bar-g		°C			
JTIC		MINIMUM DP	NORMAL	MAXIMUM		Ī		bar			
ONE		CV CALCULATED MINIMUM	NORMAL	MAXIMUM	NOTE 3		NOTE 3	NOTE 3			
OPERATING CONDITIONS	-	CV SELECTED	% ABERTURA DA			 T2 2		OTE 2			
N/L		MAXIMUM PERMISSIBLE DIN	1.37.52.77.57.4.54		1		NOT				
ERA			ITION								
OP		DENSITY @ OPERATING COND					kg/m³				
		VISCOSITY @ OPERATING CON					cP				
	_	VISCOSITY @ OPERATING CON					cP				
		MOLECULAR MASS	FACTOR k=Cp/Cv								
	48										
		MANUFACTURER				ST	ERIFLOW				
	50	MODEL									

- 1- THE MANUFACTURER MUST CONFIRM THE NOMINAL DIAMETER OF THE VALVE.
- 2- The SELECTED CV AND THE OPENING PERCENTAGE MUST BE SUPPLIED BY THE VALVE MANUFACTURER.
- 3- THE MANUFACTURER MUST SEND VALVE CALCULATION MEMORY.
- 4- PROCESS VALUES SET FOR PRICE TAKING AND MUST BE CONFIRMED IN THE PROJ. Detailing.









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PRESSURE REDUCING VALVE - SANITARY

								2		
	1	INSTRUMENT TAG NUMBER			PCV-390101					
	2	SERVICE			CLEAN COMPRESSED AIR SUPPLY - PORTABLE VESSEL TQ-3804					
	3	P&ID				7.A	-Z-0-2-02			
74	4	PIPE LINE	EQUIPMENT NUM	BER	7A-1/2"-CAP-390104-SS10-NI -					
GENERAL	5	EQUIPMENT MATERIAL / PIPE			ASTM A270 Gr. TP316L					
3ΕΛ	6	INTERNAL DIAMETER LINE	LINE THICKNESS		12,7	mm	1,65	mm		
•		FUNCTION	1		DC	OWNSTREAM F	I PRESSURE LIMITATI	ION		
	8	CERTIFICATES					IOTES 3)			
	9									
	<u> </u>	BODY TYPE				DIAPHRAGM	/ SELF OPERATED			
	<u> </u>	BODY MATERIAL + COATING					SS1016L			
	⊢—	PLUG MATERIAL + COATING					SS1016L			
VAL		SEED MATERIAL + COATING					SS1016L			
BODY AND INTERNAL		CHARACTERISTIC					=%			
INT		ENTRY DIAMETER	OUTPUT DIAMETE	=R	12 7 mm	(NOTE 1)		m (NOTE 1)		
4ND		16/nov/21	OOTI OT BIAMETE	-/-		· · ·	O (SEE GENERAL NO			
7 / 0		LEAKAGE CLASS			70-7	SIVIL DI L-2013	IV	7123 0)		
ВО		CASTLE TYPE				97	TANDARD			
	<u> </u>	RANGEABILITY								
	_	KANGEABILITY				(SEE GEN	IERAL NOTES 5)			
	20	TVDE				CDDING	· / DIADUDACM			
	_	TYPE				SPRING	/ DIAPHRAGM			
		PILOT					YES			
œ	⊢—	AIR SUPPLY AVAILABLE		EVEDNAL TO	-	14				
ACTUATOR	⊢—	TYPE OF PRESSURE OUTLET			,	EXTERNAL TO	THE DOWNSTREAL	M ————————————————————————————————————		
TU/		DIAPHRAGM MATERIAL					PTFE			
AC		SPRING ACTUATION BAND					NUFACTURER			
		CONTROL POINT),2 bar-g			
		FAILURE CONDITION			CLOSED					
	27									
ES		TAGGING			YES (SEE GENERAL NOTES 1)					
ACCESSORIES		REGULATOR FILTER			NOT REQUIRED					
ESS	32									
1CC	33									
_	34		T							
		FLUID	PHYSICAL STATE		CLEAN		Al			
		MINIMUM FLOW		MAXIMUM		1,8		Nm³/h		
		MINIMUM PRESSURE	NORMAL	MAXIMUM		6		bar-g		
۸S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,			°C °C		
OPERATING CONDITIONS		DESIGN PRESSURE	DESIGN TEMPERA			bar-g	L	°C		
IQN		MINIMUM DP	NORMAL	MAXIMUM			1,075	bar		
00	41	CV CALCULATED MINIMUM	NORMAL % ABERTURA DA	MAXIMUM	NOTE 3		NOTE 3	NOTE 3		
7//		CV SELECTED	NO	T2 2		OTE 2				
RA1		MAXIMUM PERMISSIBLE DIN			NOT					
OPE.		DENSITY @ OPERATING COND			kg/m³					
	⊢—	VISCOSITY @ OPERATING COI					сР			
	⊢	VISCOSITY @ OPERATING COI	1				cР			
	47	MOLECULAR MASS	FACTOR k=Cp/Cv							
	48									
	49	MANUFACTURER				ST	ERIFLOW			
	50	MODEL								

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PRESSURE REDUCING VALVE - SANITARY

		OURLE REDUCING WA						2		
	1	INSTRUMENT TAG NUMBER				PC	:V-390201	1 -2		
	2	SERVICE			CLEAN COMPRESSED AIR SUPPLY - PORTABLE VESSEL TQ-3808					
	3	P&ID			7A-Z-0-2-02					
71		PIPE LINE	EQUIPMENT NUM	BER	7A-1/2"-CAP-390204-SS10-NI -					
GENERAL		EQUIPMENT MATERIAL / PIPE	1			ASTM A	I 270 Gr. TP316L			
3EN		INTERNAL DIAMETER LINE	LINE THICKNESS		12.7	mm	1	5 mm		
J		FUNCTION					I PRESSURE LIMITAT			
	8	CERTIFICATES					IOTES 3)			
	9					1,				
	<u> </u>	BODY TYPE				DIAPHRAGM	I / SELF OPERATED)		
	<u> </u>	BODY MATERIAL + COATING					SS1016L			
		PLUG MATERIAL + COATING					SS1016L			
/AL		SEED MATERIAL + COATING					SS1016L			
ERN		CHARACTERISTIC					=%			
BODY AND INTERNAL	⊢	ENTRY DIAMETER	OUTPUT DIAMETE	- D	12.7 mm	(NOTE 1)		nm (NOTE 1)		
4ND		16/nov/21	OOTI OT BIAMETE	-11		· · · · · · · · · · · · · · · · · · ·) (SEE GENERAL N			
7		LEAKAGE CLASS			10-7	ASIVIE DE E-2018	IV	J1E3 0)		
BOI		CASTLE TYPE					TANDARD			
		RANGEABILITY								
		KANGEABILITY				(SEE GEN	IERAL NOTES 5)			
	20	TVDE			<u> </u>	SDDING	· / DIABUBACM			
	<u> </u>	TYPE			SPRING / DIAPHRAGM					
	⊢	PILOT	YES -							
œ	⊢	AIR SUPPLY AVAILABLE				EVEEDMM TO	-			
ACTUATOR		TYPE OF PRESSURE OUTLET				EXTERNAL TO	THE DOWNSTREA	IVI		
ÚŢ.		DIAPHRAGM MATERIAL				5)/1/4	PTFE			
AC		SPRING ACTUATION BAND					NUFACTURER			
		CONTROL POINT			0,2 bar-g					
		FAILURE CONDITION			CLOSED					
	27	T400000				\/EQ (QEE Q	ENERAL MOTEO ()			
ES		TAGGING			YES (SEE GENERAL NOTES 1)					
OR		REGULATOR FILTER			NOT REQUIRED					
ACCESSORIES	32									
400	33									
	34	FLUID	PHYSICAL STATE		CLEAN	A/D	Ι ,	NIR		
					CLEAN	1				
		MINIMUM PRESSURE	NORMAL	MAXIMUM		1,8		Nm³/h		
		MINIMUM PRESSURE	NORMAL NORMAL	MAXIMUM MAXIMUM		6		bar-g °C		
NS		MINIMUM TEMPERATURE	DESIGN TEMPERA		,	har-a		°C		
15		DESIGN PRESSURE MINIMUM DP				bar-g	L			
NO.			NORMAL	MAXIMUM	NOTE 2		NOTE 2	bar		
3 00	_	CV CALCULATED MINIMUM CV SELECTED	NORMAL % ABERTURA DA	MAXIMUM VÁLVULA	NOTE 3		NOTE 3	NOTE 3		
ZIN		MAXIMUM PERMISSIBLE DIN	70 ABENTUKA DA	VALVULA	l NC)T2 2	NOT '	VOIE Z		
OPERATING CONDITIONS	<u> </u>		NITION							
OP		DENSITY @ OPERATING COND					kg/m³			
		VISCOSITY @ OPERATING COL					cP			
		VISCOSITY @ OPERATING COI	1				cP			
	⊢	MOLECULAR MASS	FACTOR k=Cp/Cv							
	48	MANUEACTURES			1	0.7	EDIELOW			
		MANUFACTURER				SI	ERIFLOW			
NO.	50	MODEL								

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PRESSURE REDUCING VALVE - SANITARY

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								2		
	1	INSTRUMENT TAG NUMBER				PC	V-390301			
	2	SERVICE			CLEAN COMPRESSED AIR SUPPLY - PORTABLE VESSEL TQ-3806					
	3	P&ID			7A-Z-0-2-02					
47	4	PIPE LINE	EQUIPMENT NUM	BER	7A-1/2"-CAP-390304-SS10-NI -					
3ENERAL	5	EQUIPMENT MATERIAL / PIPE	1			ASTM A	270 Gr. TP316L			
GEN	6	INTERNAL DIAMETER LINE	LINE THICKNESS		12,7	mm		1,65 mm		
	7	FUNCTION			DO	DWNSTREAM F	I PRESSURE LIMIT	TATION		
	8	CERTIFICATES				(/\	IOTES 3)			
	9									
	10	BODY TYPE				DIAPHRAGM	/ SELF OPERAT	ED		
	11	BODY MATERIAL + COATING				S	SS1016L			
	12	PLUG MATERIAL + COATING				S	SS1016L			
MAL	13	SEED MATERIAL + COATING				S	SS1016L			
ĒR		CHARACTERISTIC					=%			
N		ENTRY DIAMETER	OUTPUT DIAMETE	ER	12,7 mm	(NOTE 1)	12,	7 mm (NOTE 1)		
ANE	16	16/nov/21				·) (SEE GENERAL			
BODY AND INTERNAL		LEAKAGE CLASS					IV			
ВС		CASTLE TYPE				S7	ANDARD			
	⊢	RANGEABILITY					IERAL NOTES 5)			
	20					,				
	├	TYPE				SPRING	/ DIAPHRAGM			
	<u> </u>	PILOT			YES					
		AIR SUPPLY AVAILABLE					-			
R		TYPE OF PRESSURE OUTLET				EXTERNAL TO	THE DOWNSTR	REAM		
ACTUATOR	⊢	DIAPHRAGM MATERIAL					PTFE			
CTC		SPRING ACTUATION BAND				BY MAI	NUFACTURER			
Ā	⊢	CONTROL POINT			0,2 bar-g					
		FAILURE CONDITION			CLOSED					
	27	THEORE CONDITION					20025			
	_	TAGGING				YES (SEE G	ENERAL NOTES	1)		
NES		REGULATOR FILTER			NOT REQUIRED					
SOF	32				NOT REQUIRED					
ACCESSORIES	33									
ACC	34									
	Ľ.	FLUID	PHYSICAL STATE		CLEAN	AIR		AIR		
		MINIMUM FLOW	NORMAL	MAXIMUM	322/07	1,8		Nm³/h		
		MINIMUM PRESSURE	NORMAL	MAXIMUM		6		bar-g		
		MINIMUM TEMPERATURE	NORMAL	MAXIMUM				°C		
SNC		DESIGN PRESSURE	DESIGN TEMPERA		,	l bar-g		°C		
CONDITIONS		MINIMUM DP	NORMAL	MAXIMUM				bar		
ONE		CV CALCULATED MINIMUM	NORMAL	MAXIMUM	NOTE 3		NOTE 3	NOTE 3		
O O	_	CV SELECTED	% ABERTURA DA			 T2 2		NOTE 2		
OPERATING		MAXIMUM PERMISSIBLE DIN	1		1		NOT			
ER/		DENSITY @ OPERATING COND	ITION				kg/m³			
O		VISCOSITY @ OPERATING COI					cP			
	⊢	VISCOSITY @ OPERATING COI					cP			
		MOLECULAR MASS	FACTOR k=Cp/Cv							
	48		1.1101011 N-0p10V							
	_	MANUFACTURER			1	.97	ERIFLOW			
		MODEL								
	L 30									

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PRESSURE REDUCING VALVE - SANITARY REV.:

		OUNE REDUCING VA						2		
	1	INSTRUMENT TAG NUMBER				PC	CV-650110	=		
	2	SERVICE			CLEAN COMPRESSED AIR SUPPLY - PORTABLE VESSEL TQ-3806					
		P&ID			7A-Z-0-2-28					
7		PIPE LINE	EQUIPMENT NUM	BFR	3/4"-SFI-650111-SS10-HC -					
GENERAL		EQUIPMENT MATERIAL / PIPE	1-40		6.7 6.7 66.7		l 270 Gr. TP316L			
ENI		INTERNAL DIAMETER LINE	LINE THICKNESS		3/4"	mm	ı	mm		
0		FUNCTION	LINE THIORNESS				 PRESSURE LIMITATIO			
	8	CERTIFICATES					IOTES 3)	77 V		
	9	CERTIFICATES				(//	101233)			
-	<u> </u>	BODY TYPE				DIAPHRACIA	1/SELF OPERATED			
1		BODY MATERIAL + COATING					SS1016L			
	l · ·						SS1016L			
ΆL		PLUG MATERIAL + COATING								
BODY AND INTERNAL		SEED MATERIAL + COATING					SS1016L			
IN	⊢	CHARACTERISTIC	LOUTDUT DIAMETE		2/4!! (A	IOTE 1)	=%	IOTE 4)		
ND		ENTRY DIAMETER	OUTPUT DIAMETE	:K	,	IOTE 1)		IOTE 1)		
γA		16/nov/21			TC-A	SME BPE-2019	9 (SEE GENERAL NOT	ES 6)		
ВОГ		LEAKAGE CLASS					IV			
		CASTLE TYPE					TANDARD			
		RANGEABILITY				(SEE GEN	NERAL NOTES 5)			
	20	TV05				000000	V.D.4.D.4.D.4.D.4.D.4.D.4.D.4.D.4.D.4.D.			
	<u> </u>	TYPE			SPRING / DIAPHRAGM					
	⊢	PILOT			YES					
۵۲	⊢	AIR SUPPLY AVAILABLE			-					
ACTUATOR		TYPE OF PRESSURE OUTLET		EXTERNAL TO	THE DOWNSTREAM					
TU/		DIAPHRAGM MATERIAL					PTFE			
AC		SPRING ACTUATION BAND					NUFACTURER			
		CONTROL POINT			0,2 bar-g					
		FAILURE CONDITION			CLOSED					
	27				-					
ES	⊢	TAGGING	YES (SEE GENERAL NOTES 1)							
ORI		REGULATOR FILTER			NOT REQUIRED					
ESS	32									
ACCESSORIES	33									
_	34	EL LUID	Inches Act of Act		0.754		I 0.754			
		FLUID	PHYSICAL STATE		STEA		STEA			
		MINIMUM FLOW	NORMAL	MAXIMUM		30		KG/H		
		MINIMUM PRESSURE	NORMAL	MAXIMUM		1,1		bar-g		
٧S		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	,	<u></u>		°C		
10/1		DESIGN PRESSURE	DESIGN TEMPERA			bar-g		°C		
ND/		MINIMUM DP	NORMAL	MAXIMUM		L	1	bar		
000	_	CV CALCULATED MINIMUM	NORMAL	MAXIMUM	NOTE 3		NOTE 3	NOTE 3		
OPERATING CONDITIONS		CV SELECTED	% ABERTURA DA	VALVULA	NO	T2 2		TE 2		
RA.		MAXIMUM PERMISSIBLE DIN	UTION				NOT			
OPE		DENSITY @ OPERATING COND					kg/m³			
		VISCOSITY @ OPERATING CON					сР			
		VISCOSITY @ OPERATING CON	1				cP			
	⊢	MOLECULAR MASS	FACTOR k=Cp/Cv							
	48									
	⊢	MANUFACTURER				ST	ERIFLOW			
	50	MODEL								

- 1- THE MANUFACTURER MUST CONFIRM THE NOMINAL DIAMETER OF THE VALVE.
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REV.:

PRESSURE REDUCING VALVE - SANITARY

2 INSTRUMENT TAG NUMBER PCV-650111 SERVICE CLEAN COMPRESSED AIR SUPPLY - PORTABLE VESSEL TQ-3806 2 P&ID 7A-Z-0-2-28 3 PIPE LINE EQUIPMENT NUMBER 3/4"-SFI-650116-SS10-HC 4 **SENERAL** EQUIPMENT MATERIAL / PIPE ASTM A270 Gr. TP316L LINE THICKNESS INTERNAL DIAMETER LINE 3/4" mm FUNCTION DOWNSTREAM PRESSURE LIMITATION CERTIFICATES (NOTES 3) 8 BODY TYPE DIAPHRAGM / SELF OPERATED 10 BODY MATERIAL + COATING SS1016L 12 PLUG MATERIAL + COATING SS1016L **BODY AND INTERNAL** 13 SEED MATERIAL + COATING SS1016L CHARACTERISTIC 14 15 ENTRY DIAMETER OUTPUT DIAMETER 3/4" (NOTE 1) 3/4" (NOTE 1) 16 16/nov/21 TC - ASME BPE-2019 (SEE GENERAL NOTES 6) LEAKAGE CLASS IV 17 18 CASTLE TYPE STANDARD 19 RANGEABILITY (SEE GENERAL NOTES 5) 20 19 TYPE SPRING / DIAPHRAGM 20 PILOT YES AIR SUPPLY AVAILABLE 21 TYPE OF PRESSURE OUTLET EXTERNAL TO THE DOWNSTREAM **ACTUATOR** 22 DIAPHRAGM MATERIAL PTFE 23 24 SPRING ACTUATION BAND BY MANUFACTURER 25 CONTROL POINT 0.2 bar-q 26 FAILURE CONDITION CLOSED TAGGING YES (SEE GENERAL NOTES 1) 30 ACCESSORIES 31 REGULATOR FILTER NOT REQUIRED 32 33 34 35 FLUID PHYSICAL STATE STEAM STEAM MINIMUM FLOW NORMAL MAXIMUM 30 KG/H 36 MINIMUM PRESSURE NORMAL MAXIMUM 1.1 bar-g 37 38 MINIMUM TEMPERATURE NORMAL MAXIMUM °C OPERATING CONDITIONS DESIGN PRESSURE DESIGN TEMPERATURE 39 bar-g 40 MINIMUM DP NORMAL MAXIMUM bar CV CALCULATED MINIMUM NORMAL MAXIMUM NOTE 3 NOTE 3 NOTE 3 42 CV SELECTED % ABERTURA DA VÁLVULA NOT2 2 NOTE 2 43 MAXIMUM PERMISSIBLE DIN NOT DENSITY @ OPERATING CONDITION 44 kg/m³ 45 VISCOSITY @ OPERATING CONDITION cР VISCOSITY @ OPERATING CONDITION сР MOLECULAR MASS 47 FACTOR k=Cp/Cv 48 MANUFACTURER STERIFLOW 49 MODEL 50

- 1- THE MANUFACTURER MUST CONFIRM THE NOMINAL DIAMETER OF THE VALVE.
- 2- The SELECTED CV AND THE OPENING PERCENTAGE MUST BE SUPPLIED BY THE VALVE MANUFACTURER.
- 3- THE MANUFACTURER MUST SEND VALVE CALCULATION MEMORY.
- 4- PROCESS VALUES SET FOR PRICE TAKING AND MUST BE CONFIRMED IN THE PROJ. Detailing.