REFERENCED DRAWING: I-DE-3A36.05-1500-941-P9U -004 Rev G

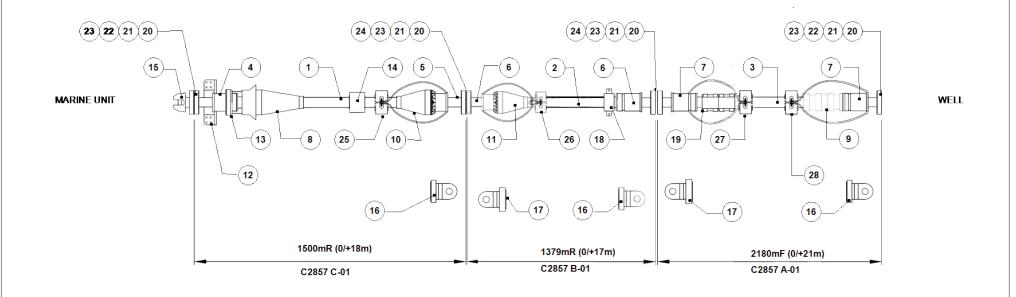
CBS N° .: 4600632812 PCS N° .: 4512019851

	REVISIONS		
REV	DESCRIPTION	APPROVED	DATE
11	According ECR WS00084626. Revisions highlighted in grey.	CNa	2/3/2023
12	Updated according to ECR WS00086990. Template update, anode position, itens 15/16 supplied by client	CNa	5/26/2023

				_			_					
/9\		30	N/A	N/A	2	-	-	CB-OAXXXXXXX-00-88.02	01	Assembly Vacuum Test Adapter (3/8" NPT Male)	(5)	
10		29	110	170	1	-	-	N/A	-	Kit of components for MODA System		
/12		28	180	530	175Kg	-	-	CB-TDC2857XX-00-01	02	Anode Collar for Service Life 35 Kg (5 per EndFitting, Drawing Number CB-TDCXXXXXXX-00-01.19B) + Neoprene Blanket		
/12		27	190	530	175Kg	-	-	CB-TDC2857XX-00-01	02	Anode Collar for Service Life 35 Kg (5 per EndFitting, Drawing Number CB-TDCXXXXXXX-00-01.19A) + Neoprene Blanket		
/12		26	260	530	120Kg	-	-	CB-TDC2857XX-00-01	02	Anode Collar for Service Life 30 Kg (4 per EndFitting, Drawing Number CB-TDCXXXXXXX-00-01.16AH) + Neoprene Blanket		
/11		25	270	530	120Kg	-	-	CB-TDC2857XX-00-01	02	Anode Collar for Service Life 30 Kg (4 per EndFitting, Drawing Number CB-TDCXXXXXXX-00-01.16AG) + Neoprene Blanket		
10		24	TBD	640	2	-	-	N/A	-	Set of Studs and Bolts, 7 1/16" API 6BX Flange, 10000 psi, BX 156 , For Tensioner Hydratight HL (For Installation)	(1) (2)	
/10\	2	23	240	630	6	-	-	N/A	-	Set of Studs and Bolts, 7 1/16" API 6BX Flange, 10000 psi, BX 156 , For Tensioner Hydratight HL (For transport and tests)	(1) (2)	
10		22	230	620	2	-	-	N/A	-	Set of Studs and Bolts, 7 1/16" API 6BX Rotative Flange, 10000 psi, BX 156 , For Tensioner Hydratight HL (For Installation)	(1) (2)	
/10\	- 2	21	220	580	6	-	-	N/A	-	Seal Ring BX 156 AISI 316L (For transports and tests)		
/10\		20	TBD	590	4	-	-	N/A	-	Seal Ring BX 156 Inconel 625 (For Installation)		
/12		19	160	230	1	-	-	PT-PRT-357021	02	Anchor Collar Protection (3m), 4" ID Gas Service Flowline		
/12		18	150	210	1	-	-	CB-AC1012315-00-01	03	Anchor Collar (SWL= 55 tf), 4" ID Gas Service Bottom Riser		
/12		17	250	690	2	-	-	CB-TH1522224-00-02	80	Installation/Test Head, 7 1/16" API 6BX Flange, 10000 psi, BX 156 (SWL= 200 tf)		
/12		16	N/A	N/A		-	3	CB-TH152XXXX-00-01	01	Handling/Test Head, 7 1/16" API 6BX Flange, 10000 psi, BX 156 (SWL= 55 tf)		
12		15	N/A	N/A		-	1	CB-PH152XXXX-00-02	01	Pulling Head, 7 1/16" API 6BX Flange, 10000 psi, BX 156 (SWL= 400 tf)		
11		14	140	200	1	-	-	CB-SC1012315-00-01	05	Stopper Clamp, 4" ID Gas Service Top Riser		
/10\		13	130	190	1	-	-	СВ-РК1012315-00-01	01	Pull-In Kit 4" ID Gas Service Top Riser		
/11		12	120	180	1	-	-	СВ-НС1012315-00-01	02	Hang Off Collar, 4" ID, I-Tube 48" Gas Service Top Riser		
/12		11	100	160	1	-	-	CB-BS1012315-00-02	02	Intermediate Bend Stiffener, 4" ID Gas Service Bottom Riser		
10		10	90	160	1	-	-	CB-BS1012315-00-02	02	Intermediate Bend Stiffener, 4" ID Gas Service Top Riser		
/12		9	170	240	1	-	-	CB-BR1012509-00-01	05	Bend Restrictor, 4" ID Gas Service Flexible Flowline (Splited)		
/10\		8	80	150	1	-	-	CB-BS1012315-00-01	02	Top Bend Stiffener with Latch Sleeve and Protection, 4" ID, I-Tube 48" Gas Service Top Riser		
/12		7	70	130	2	-	-	CB-EF1012511-00-01	05	End Fitting 4" ID Gas Service Flowline 7 1/16" API 6BX Flange, 10000 psi, BX 156 With N2 Seal Port	(3)	
/12		6	60	120	2	-	-	CB-EF1012315-00-02	07	End Fitting 4" ID Gas Service Bottom Riser 7 1/16" API 6BX Flange, 10000 psi, BX 156 With N2 Seal Port	(3)	
11		5	50	110	1	-	-	CB-EF1012315-00-02	07	End Fitting 4" ID Gas Service Top Riser 7 1/16" API 6BX Flange, 10000 psi, BX 156 with N2 Seal Port	(3)	
<u>/11</u>		4	40	70	1	-	-	CB-EF1012315-00-01	06	End Fitting 4" ID to 6" ID transition bore Gas Service Top Riser 7 1/16" API 6BX Flange, 10000 psi, BX 156 with N2 Seal Port with MODA	(3)	
/12		3	30	30	2180 m	-	-	WSI 101.2511-RD-4042-X	01	4" ID Gas Service Flexible Flowline		
/12		2	20	20	1379 m	-	-	WSI 101.2316-RD-4042-6	01	4" ID Gas Service Flexible Bottom Riser		
/10\		1	10	10	1500 m	-	-	WSI 101.2315-RD-4043-6	02	4" ID Gas Service Flexible Top Riser		
	IT	TEM	PCS ITEM	CBS ITEM	NEW QTY.	SPARE QTY.	SUPPLIED BY CLIENT	DOCUMENT N°	REV Nº	DESCRIPTION	NOTES	CHECK
	LEGE	ND:	N/A: ME	ANS NOT APPLIC	CABLE.	TBD: ME	EANS TO BE	DEFINED.	ITEMS	TO BE ASSEMBLED OFFSHORE. ITEMS TO BE PARTIAL ASSEMBLED OFFSHORE. ITEMS TO BE DELIVERED WITH	OFFSHORE ON	ES.
	NOTE			- 8 UN x 15 1/2" BO ordance with MTL-60		NGE), BICHROME	E OVER CADMIUN	M. 1 1/2" - 8 UN NUTS (24 PER FL	ANGE), I	(3) - EF with Full Protection. (4) - Pending Analysis for this well. (5) - This item is part of Top Riser End Fitting (not included on PCS).		

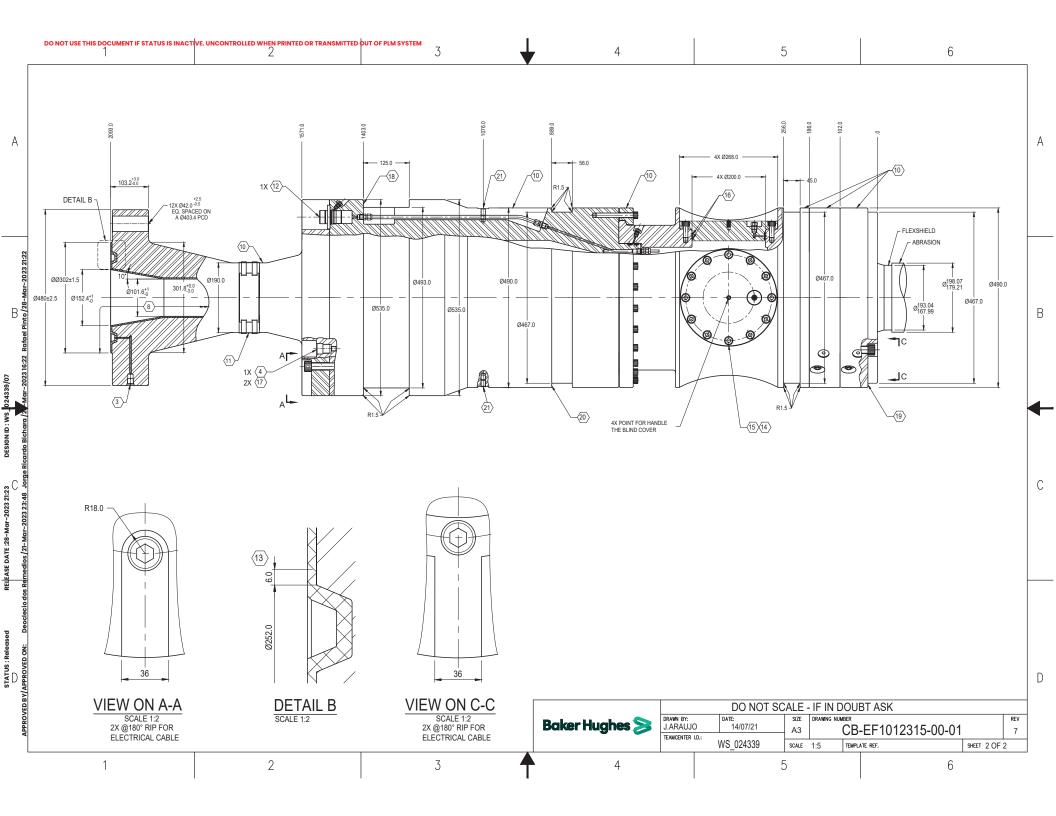
THE DESIGN WAS ORIGINATED BY AND IS THE EXCLUSIVE PROPERTY OF WELLSTREAM. IT IS DISCLOSED IN CONFIDENCE WITH THE UNDERSTANDING THAT NO REPRODUCING OR OTHER USE OF THE INFORMATION IS AUTHORIZED WITHOUT SPECIFIC IN WRITING BY WELLSTREAM. ENGINEERED BY: DATE: TITLE: SHEET.: **Buzios 5 FIELD DEVELOPMENT** 10/02/2021 Thaisa Silva GFo CHECKED BY: DATE: 1/2 COMPOSITION DRAWING - Gas Service - FPSO Buzios 5/P-MOD5-04 (RJS-688) 10/02/2021 RRo Marcio Moraes TOP CONFIGURATION: DRAWING NUMBER: CLIENT: REV.: APPROVED BY: **Baker Hughes** DATE: Hang-Off for I-Tube C2857 UN-01 Petrobras 12 12/02/2021 CNa João Lima

♣ LAUNCHING SEQUENCE

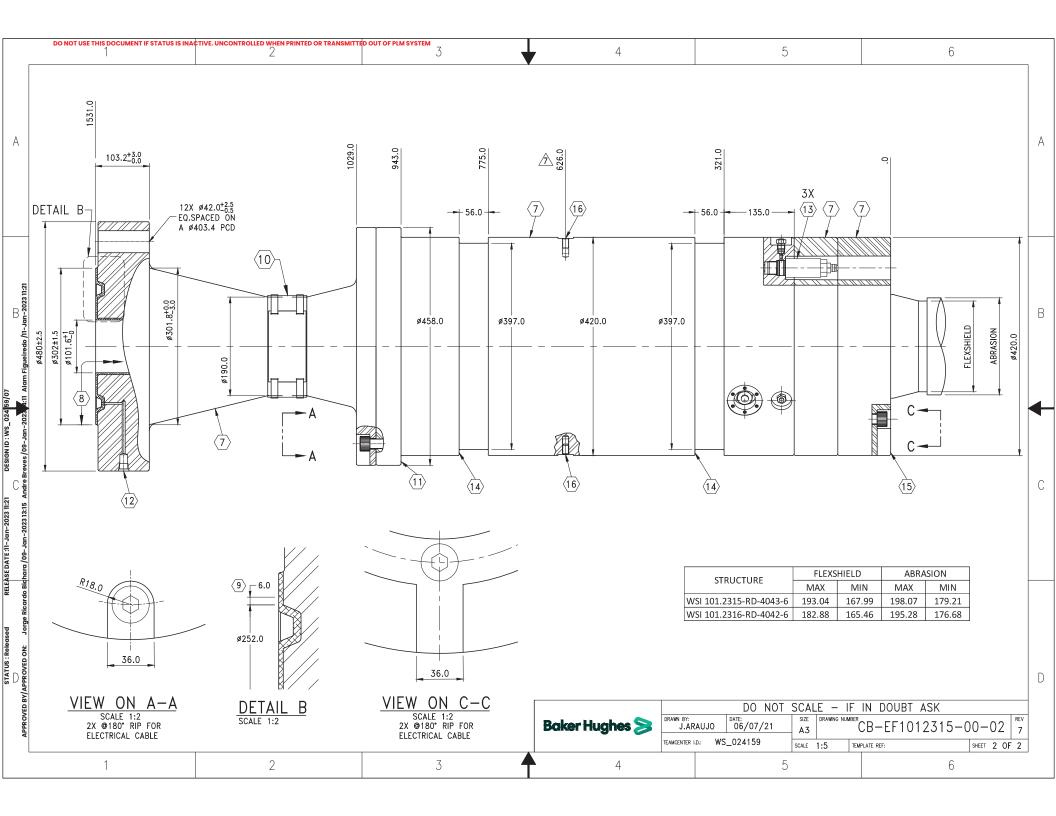


	ENGINEERED BY:	DATE: 10/02/2021	1	TITLE:		Buzios 5 FIELD DEVELOPMENT		SHEET.:
	Thaisa Silva CHECKED BY:	DATE:	GFo	-	COMPOSITION DRAWIN	G - Gas Service - FPSO Buzios 5/P-M0	DD5-04 (RJS-688)	2/2
	Marcio Moraes	10/02/2021	RRo	CLIENT:		TOP CONFIGURATION:	DRAWING NUMBER:	REV.:
Baker Hughes	APPROVED BY: João Lima	DATE: 12/02/2021	CNa		Petrobras	Hang-Off for I-Tube	C2857 UN-01	12

	Jae Inia DOCUMENT	IF STATUS IS INACT	2	N PRINTED OR TRANSMITTED) -	OUT OF PLN	3		4			5			6		
						REVISION	IS .						REVISIONS			
					REV	DESCRIPTION		APF	ROVED	DATE RE	v	DESCR	IPTION		APPROVED	DATE
					5 UPI	DATED NOTE 2 AND 5 TORQUE VALUE, SEE ECR	WS0006740		_	3/22 1	ORIGINAL ISSUE				RPo	23/09/2
						·						DACION & ELEV	VEHIELD SEE ECD WISH	0060500	TCo	09/11/2
						DATED NOTES 3, 4, 17 AND 21, ADDED DIMENSION, SEE E			_				•	0000030.		
						DATED NOTES 3, 4, 17 AND 21, ADDED DIMENSION, SEE E	CR WS0008			1/23 3	UPDATED NOTE 4, SEE ECF	R WS00064923	•		TCo	22/02/2
NO	OTES:				7 ADD	DED NOTE 22. SEE ECR WS00086301.		R	Po 18/0	3/23 4	INSERTED NOTE 21, SE	EE ECR WS0	0066517.		TCo	21/03/2
	COLOR, IN ACCORD	DANCE TO NORSOK N	M-501, SYSTEM 7A AS PER ((11) (12)	IDENTIFICATION PL			XXXX-00-03 SIBLE CONNECTOR (STANDAR	RD) TELEDYNE	ODI. IF THERE IS NOT	OPTICAL CONNEC	TOR, KEEI	P THE
۷.	TORQUE VALUE:	NER MATERIAL. MIL	-0040, ELECTRODEPOSITE	D CADMIUM WITH CHROMATE	(ASSEMBLE	eb with Locitie 577).	√ (13)	PLUG OPTICAL COI			-00-61 ASSEMBLED. NEL 625 OVERLAY REGION OF	FLANGE FAC	E AT 3 EQUI-DISTANT L	OCATIONS WITH IN	√ 6.0mm B	ANDED
	PLACEMENT	FASTENER -	WITH ROCOL (COF 0.09)	PRQUE VALUE WITH EASY RUN (CO	F 0 08)			REGION OUTSIDE (F BX 156 S	EALING REGIO	ON. REFER TO DOCUMENTATION SHALL BE WHITIN THE RANGE	ON INCLUDED				
	BODY TO JACKET	3/4"-16 UNF	231 +5/-0 ft-lbs [313 +7/-0 N.m]	222 +5/-0 ft-lbs [301 +7	,		_	ACTUAL NEGOLIO	VIILIXE IIIL	TIANDINESS	ONALE DE WINNIN ME NANGE	220-320 HDN.				
	SPLIT COLLAR TO JACKET	1/2"-20 UNF	67 +5/-0 ft-lbs [91 +7/-0 N.m]	64 +5/-0 ft-lbs [87 +7/-	0 N.m]		(14)	FOR OPENING AND			'ERS: ' EYE BOLT Ø0.375" – 16UNC-2A	۷-				
	ADAPTOR TO OUTER COLLAR	3/4"-16 UNF	231 +5/-0 ft-lbs [313 +7/-0 N.m]	222 +5/-0 ft-lbs [301 +7	/-0 N.m]			-REMOVE CAPSCRI	WS Ø0.500	"-20UNF IN OF	RDER TO OPEN THE BLIND CO					
	BLIND COVER TO ADAPTOR	1/2"-20 UNF	67 +5/-0 ft-lbs [91 +7/-0 N.m]	64 +5/-0 ft-lbs [87 +7/-	0 N.m]						NDLE THE BLIND COVER; OVERS, ASSEMBLY CAPSCREV	VS Ø0.500"-20	UNF WITH LOCTITE 577	7 AND TORQUE TH	EM	
	PLUG/OPTICAL CONNECTOR TO JACKET	M5x0.8	2 +1/-0 ft-lbs [2 +1	/-0 N.m] (TO BE CONSIDERED DRY)				WITH THE VALUE P	RESENTED	IN NOTE 2;			2001112011			
	LOCKING DEVICE	M10x1.5	10 +1/-0 ft-lbs [14 +	-1/-0 N.m] (TO BE CONSIDERED DRY)			_				SETSCREW Ø0.375"-16UNC-2A;					
3	HOLE. NO THREA		SHOULD BE EXPOSED.	ER TO FACE THE ADJACE A SPECIFIC TORQUE VAL			(15)	-THE BLIND COVER	SHOULD E	BE PROTECTE BE PACKED W	ID COVERS: ED TO PREVENT THE AREAS FF VITH A PLASTIC TAPE AND WIT CAUSE DETRIMENTAL EFFEC	H BUBBLE PL	ASTIC;			
$\langle 4 \rangle$	VENT DODTS: 1"-12	LINE VENT VALVE M	ODEL: DUKRON DR-UZC-G6	SC341\/3					THE BLIND	COVERS IN C	ORDER TO AVOID THE LAYER D	DAMAGE.				
4	TORQUE WITH TEF	GEL (COF.0.1): 44 +2.	5/-0 ft-lbs [60 +5/-0 N.m]	JO241V2.			(16)	QUANTITY NOME	NCLATURE		MAT. SPECIFICATION		COMMENTS			
	PLATFORM INTERFA	ACE: 3/8"NPT MALE.						08 O-	RING	PARKER V3	32190B VITON FKM-90 CODE 2.	264	1/8", ID 7.5"			
5.	FLANGE BOLTS FOR							16 O-RING	BACKUP	PARBAK V3	32190B VITON FKM-90 CODE 8.	264	1/8", ID 7.5"			
	ELECTF Ø1 1/2"-	-8 UN, HYDRATIGHT I	BOLTS (MTL-6040), IIUM WITH CHROMATE (12 F HEX NUTS (MTL-6040), IIUM WITH CHROMATE (24 F				(17)		BE CONSID	DERED DRY) (ITH TEFGEL (COF.:0.1): 85+15/- 0.375"-18NPT): 40 +5/-0 ft-lbs (5		I/-0 N.m].			
	TORQU 467 kN		ED DRY): 3038 N.m (2241 ft-				(18)				ORT THE ENDFITTING: 290tf ER OF THE PLSV INSERT WI		ANGE OF: 495mm-515	ōmm.		
6.	MASS: 2200 kg (APP	ROX.).					(19)				ORT THE ENDFITTING: 290tf ER OF THE PLSV INSERT WI		ANGE OF: 468mm-470)mm.		
7.	NOMINAL DIMENSIC	ONS GIVEN; DIMENSIO	ONS APPLY PRIOR TO COA	TING.			(20)	MAXIMUM ALLOV	ABLE LOA	D TO SUPPO	ORT THE ENDFITTING: 290tf	:				
8	SEAL AND INTERNA PER MTL-5143.	L SURFACES: 625 IN	CONEL, 3.00 MINIMUM THIC	CKNESS							ER OF THE PLSV INSERT WI		ANGE OF: 470-478mm	1		
9.	MANUFACTURING A	ASSY DRW: B-EF1012	315-00-01				21	BOLT HOLE FOR								
$\langle 10 \rangle$	STENCIL WITH RED	COLOR AND LOW ST	TRESS STAMP MARKING IDI	ENTIFICATION IN				OF THE HOLE SI	IOULD BE		D IN ORDER TO FACE THE A SPECIFIC TORQUE VALI					
_		ATION SHOWN IN AC	CORDANCE WITH WS-MFG	G-4236.				THE THREAD SE	ALANT.							
	BODY DRAWING: B-I	EF1012315-01-01				4	<u>/</u> 7 22.	MAXIMUM MODA	ENDEITT	NG WIT	H HYDROSTATIC EQUILIBI	RIUM	WITHOUT HYDROS EQUILIBRIUM			
		AWING: B-EF1012315						ABANDONMENT \		DTII	ER PIPE DESIGN WATER D	DEPTH	1727m	¥1		
		FER COLLAR DRAWIN 3: B-EF1012315-26-01	IG: B-EF1012315-24-01							1,101			1121111			
		WING: B-EF1012315-3 VING: B-EFXXXXXXX						UNLESS OTHERWISE SPECI DIMENSIONS ARE IN MILLIMI		APPROVA	AL INFORMATION REVISION	FND	FITTING C	ONFIGU	RAT	.IUN
								TOLERANCES METRIC (mm)		DRAWN BY: J.ARAUJO	DATE: 14/07/21 BLa		TO 6.0" TRANS			
				Baker Hugh	es 🔰	WSI 101.2315-RD-4043-6		X. ±1 0.X ±0.3		CHECKED BY:	DATE:	1.0		1/16", API 6A		
						NEXT ASSEMBLY USED ON	1	0.XX ±0.10		A.BREVES ENGINEERED B			TYPE 6BX,	,		
				COPYRIGHT 2019 BAKER HUGHES C	OMPANY, LLC ESERVED THE	APPLICATION		ANGULAR ±0° 30' SURFACE ROUGHNESS	3.2	A.FIGUEIRE			FOR RING			
				INFORMATION CONTAINED IN THIS D CONFIDENTIAL AND PROPRIETARY PRO	OCUMENT IS PERTY OF BAKER	QAC-1209	1	BREAK SHARP EDGES	•	ENGINEERING A		SIZE DRAWI				
				HUGHES AND ITS AFFILIATES. IT IS TO BE THE BENEFIT OF BAKER HUGHES AN DISTRIBUTED, TRANSMITTED, REPRODU	D MAY NOT BE CED. ALTERED OR	- DO NOT SCALE - IF IN DOUBT	DO NO	OT SCALE AWING	$\overline{\Box}$	TEAMCENTER I.	20/00/21	A3	G NUMBER CB-EF10	012315-00-	01	
				USED FOR ANY PURPOSE WITHOUT THE I	YPRESS WRITTEN		l DRA	AWING (+)		TEAMOENTER IS			_		CHEET	
				CONSENT OF BAKER HUGH		ASK	J. (7)	Ψ	7		VVO_024000	SCALE NON	E TEMPLATE REF:		SHEET	1 OF 2



	ı		Σ					4			5	REVISIO	DNS	6	
NOTE	S:								REV	/		DESCRIPTION		APPROV	D DATE
			STEEL FORGING OR MTL-524 ANCE TO NORSOK M-501. S						1	ORIGINAL ISSU	JE			TCo	27/08/
	AC-1132.	LOR, IN ACCORDA	ANCE TO NORSON M-301, S	131EM /B & /	S AS PER				2	UPDATED TOLE	ERANCE ABR	RASION AND F	LEXSHIELD, S	SEE TCo	16/11/
2. EN	NDFITTING FASTENER M	ATERIAL: MTL-60	40, ELECTRODEPOSITED CAD	IIUM WITH					3	UPDATED EXTE	ERNAL DIAM	ETER FROM 4	60mm T0 4		22/11/
CI	HROMATE (ASSEMBLED								4	UPDATED NOT			1923	TCo	
TC	DRQUE VALUE:					_			5					TCo	+
	PLACEMENT	FASTENER		E VALUE					_						<u> </u>
	BODY TO JACKET		ROCOL (COF: 0.09)	EASY RU	N (COF: 0.08)				6	0.5/25					+ ' '
	OUTER COLLAR TO JACKET	3/4"-16 UNF 23	1 +5/-0 ft-lbs [313 +7/-0 N.m.	222 +5/-0 ft-II	os [301 +7/-0 N.m]			_ 7	UPDATED NOTES	12 AND 16,	ADDED DIMENSION	N, SEE ECR WS	S00083432 AFo	04/01/
3. FL	ELECTROI Ø1 1/2" ELECTROI TORQUE PRELOAD:	-8 UN x 15 1/2 PEPOSITED CADMIU -8 UN, HEX NUT: PEPOSITED CADMIU (TO BE CONSIDER 467 kN (10495	.", STUD BOLTS (MTL-6040), IM WITH CHROMATE (12 PER S (MTL-6040), IM WITH CHROMATE (24 PER RED DRY): 3038 N.m (2241 1 lbs)	FLANGE).		A	OF THE NOT RE	HOLE. NÓ THRI QUIRED, ONLY T PORTS: 1"-12UN E WITH TEFGEL	EAD OF THE HOME APPLICATION F, VENT VALVE (COF.0.1): 44	ASSEMBLED IN DIE SHOULD BE N OF THE THREA MODEL: DUKRO +2.5/-0 ff-lbs	EXPOSED. AD SEALANT ON DR UZC- [60 +5/-	A SPECIFIC TO GEOGRAPHICS GEORGIAN GEOR	ORQUE VALU	JE IS	
4. M	BOLIS N ASS: 1200 Kg (APPRO	OT SHOWN FOR ((.).	LARITY.				DIAMET	ER OF THE PLSV	/ INSERT WITHI	N THE RANGE O)F: 397mm	– 415mm.			
5. NO	OMINAL DIMENSIONS GI	/EN; DIMENSIONS	APPLY PRIOR TO COATING.				(15) MAXIMU DIAMET	M ALLOWABLE L FR OF THE PLSV	OAD TO SUPPO	ORT THE ENDFITT N THE RANGE O	F: 205mm	f CONSIDERING - 380mm	G THE INTER	RNAL	
6. M	ANUFACTURING ASSY D	RW: B-EF101231	5-00-02.			^	_								
AF AS BC JA OI	TENCIL WITH RED COLC PPROXIMATE LOCATION SSEMBLY DRAWING: B- DDY DRAWING: B-EF-10 CKET DRAWING: B-EF- UTER COLLAR DRAWING TERMEDIATE OUTER CO	SHOWN IN ACCO EF1012315-00-0 12315-01-02 012315-08-02 : B-EF1012315-	09-02	TICATION IN		<u>//</u>	ADJACE	NT SURFACE OF	THE HOLE. NO	CREWM12 MUST O THREAD OF TH ILY THE APPLICA	HE HOLE SI	HOULD BE EXF	POSED. A SF	THE PECIFIC	
(8) SE	EAL AND INTERNAL SUI	FACES: 625 INC	ONEL, 3.00 MINIMUM THICKN												
TC RE	QUI-DISTANT WITHIN 6. DOCUMENTATION INC	Omm BANDED RE .UDED IN FLEXIBL RDNESS SHALL E	NEL 625 OVERLAY REGION C GION OUTSIDE OF BX156 SI LE PIPE MANUFACTURING DA' RE WHITIN THE RANGE 220-	EALING REGION. FA DOSSIER FO	REFER										
			THE ENDFITTING: 305tf CON HE RANGE OF: 420mm - 4		NTERNAL										
											T				
							.02 .01 ITEM	IDENTIFYING NUMB	-0	NOMENCLATURE	144	TERIAL/MATERIAL SPECI	HEICA TION	COMME	NITE
							QUANTITY NO.	IDENTIF TING NOME	-N		ARTS LIST	TERNAL/MATERIAL SPECI	IFICATION	COMME	NIO
							UNI ESS O	THERWISE SPECIFIED:	10000044			CNDCITTI	INIC COI	NEIGHDAT	ION
							DIMENSIONS	ARE IN MILLIMETERS DLERANCES	DRAWN BY:	INFORMATION DATE:				NFIGURAT	
			Baker Hu	ahes 🔀		WSI 101.2316-RD-4042-		ETRIC (mm)	J.ARAUJO					BORE RIS	
						WSI 101.2315-RD-4043-		X. ±1 X ±0.3	CHECKED BY:	DATE:	ADo	FLANGE	7_1/1	16", API	6A,
			COPYRIGHT © 2019 BAKER H	HOUSE COMBANA ITC	NEXT ASSEMBLY	USED ON LICATION	O.X	X ±0.10 AR +0° 30'	D.REMEDIOS ENGINEERED BY:	23/07/21 DATE:	AD2	TYPE	<u>-</u> 6BX, 1	0000 psi	
			RIGHTS RESERVED. THE INFOR	MATION CONTAINED IN THIS ND PROPRIETARY PROPERTY		MENTATION	SURFACE	ROUGHNESS 3.2	A.FIGUEIREDO ENGINEERING APPVL:	25/08/21	JBa		K KING	BX156	
			OF BAKER HUGHES AND ITS USED ONLY FOR THE BENEFI MAY NOT BE DISTRIBUTED, T ALTERED OR USED FOR AN' EXPRESS WRITTEN CONSE	AFFILIATES. IT IS TO BE T OF BAKER HUGHES AND RANSMITTED, REPRODUCED, Y PURPOSE WITHOUT THE	- DO NOT	SCALE - IF	DO NOT SCAL DRAWING	IANT EDGES	T.CURVO	DATE: 27/08/21 S 024159	AFo A3			315-00-0	
					: IN DO	UBT ASK	DIVAMINO)	1 AA	J_UZ41JJ	SCALE N	ILINIE TEMPLA	TE REF:	SHEE	1 OF 2
			l 2		3	ODT ASK		· ·			5	TONE ILLER	TE NET	O TEE	1 01 2



	REVISIONS		
REV	DESCRIPTION	APPROVED	DATE
1	ORIGINAL ISSUE	TCo	12/07/21
2	NOTE 14 WAS ADDED, SEE ECR WS00062238.	TCo	16/12/21
3	UPDATED NOTE 13, SEE ECR WS00064923.	TCo	22/02/22
4	INSERTED NOTE 15, SEE ECR WS00066517.	TCo	21/03/22

AFo

04/01/23

UPDATED NOTES 14 AND 15, ADDED DIMENSION, SEE ECR WS00083432

- 1. EXTERNAL ENDFITTING MATERIAL: ALLOY STEEL FORGING, MTL-5245, COATED WITH MTL-6015, 350 microns, WHITE COLOR, IN ACCORDANCE TO NORSOK M-501, SYSTEM 7B & 7C AS PER QAC-1132.
- 2. ENDFITTING FASTENER MATERIAL: MTL-6040, ELECTRODEPOSITED CADMIUM WITH CHROMATE (ASSEMBLED WITH LOCTITE 577). TORQUE VALUE:

PLACEMENT	FASTENER	TORQUE	VALUE
PLACEMENT	FASIENER	ROCOL (COF 0.09)	EASY RUN (COF 0.08)
BODY TO JACKET	3/4"-16 UNE	231 ±5/_0 ft_lbs [313 ±7/_0 N m]	222 +5/-0 ft-lbs [301 +7/-0 N.m]
OUTER COLLAR TO JACKET	3/4 10 011	231 +37 -0 11-lbs [313 +77 -0 H.III]	222 +37 -0 11-ibs [301 +77 -0 14.iii]

3. FLANGE BOLTS FOR HYDRATIGHT HL TENSIONER:

Ø1 1/2"-8 UN x 15 1/2", STUD BOLTS (MTL-6040), ELECTRODEPOSITED CADMIUM WITH CHROMATE (12 PER FLANGE). ø1 1/2"-8 UN, HEX NUTS (MTL-6040), ELECTRODEPOSITED CADMIUM WITH CHROMATE (24 PER FLANGE). TORQUE (TO BE CONSIDERED DRY): 3038 Nm (2241 ft/lbs); PRELOAD: 467 kN (104951 lbs) BOLTS NOT SHOWN FOR CLARITY.

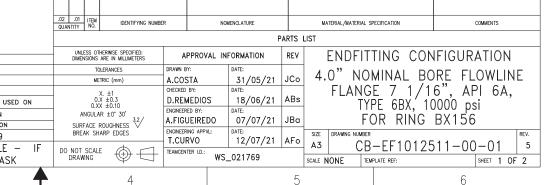
- 4. MASS: 950 Kg (APPROX.).
- 5. NOMINAL DIMENSIONS GIVEN; DIMENSIONS APPLY PRIOR TO COATING.
- 6. MANUFACTURING ASSY DRW: B-EF1012511-00-01
- \langle 7 angle stencil with red color and low stress stamp marking identification in APPROXIMATE LOCATION SHOWN IN ACCORDANCE WITH WS-MFG-4236. ASSEMBLY DRAWING: B-EF1012511-00-01 BODY DRAWING: B-EF1012511-01-01 JACKET DRAWING: B-EF1012511-08-01 OUTER COLLAR DRAWING: B-EF1012511-09-01 INTERMEDIATE OUTER COLLAR DRAWING: B-EF1012511-24-01
- \langle 8 angleSEAL AND INTERNAL SURFACES: 625 INCONEL, 3.00 MINIMUM THICKNESS PER MTL-5143.
- $\overline{\langle 9
 angle}$ hardness testing performed on inconel 625 overlay region of flange face at 3 EQUI-DISTANT WITHIN 6.0mm BANDED REGION OUTSIDE OF BX156 SEALING REGION. REFER TO DOCUMENTATION INCLUDED IN FLEXIBLE PIPE MANUFACTURING DATA DOSSIER FOR ACTUAL RESULTS WHERE THE MINIMUM HARDNESS SHALL BE 220 HBN.
- (10) IDENTIFICATION PLATE DRAWING: B-OAXXXXXXX-00-03
- $\langle 11 \rangle$ maximum allowable load to support the endfitting: 330ff considering the internal DIAMETER OF THE PLSV INSERT WITHIN THE RANGE OF: 397mm - 405mm.

Baker Hughes >

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- $\sqrt{5}\sqrt{12}$ N2 TEST PORT 3/8"-18NPT MUST BE ASSEMBLED IN ORDER TO FACE THE ADJACENT SURFACE OF THE HOLE. NO THREAD OF THE HOLE SHOULD BE EXPOSED. A SPECIFIC TORQUE VALUE IS NOT REQUIRED. ONLY THE APPLICATION OF THE THREAD SEALANT.
 - (13) VENT PORTS: 1"-12UNF, VENT VALVE MODEL: DUKRON DR UZC-G604IV2. TORQUE WITH TEFGEL (COF.O.1): 44 +2.5/-0 ft-lbs [60 +5/-0 N.m]
- √5√14 BOLT HOLE FOR ANODE CABLE. SETSCREW M12 MUST BE ASSEMBLED IN ORDER TO FACE THE ADJACENT SURFACE OF THE HOLE. NO THREAD OF THE HOLE SHOULD BE EXPOSED. A SPECIFIC TORQUE VALUE IS NOT REQUIRED, ONLY THE APPLICATION OF THE THREAD SEALANT.



3

WSI.1012511-RD-4042-X

NEXT ASSEMBLY

APPLICATION

DOCUMENTATION

QAC-1209

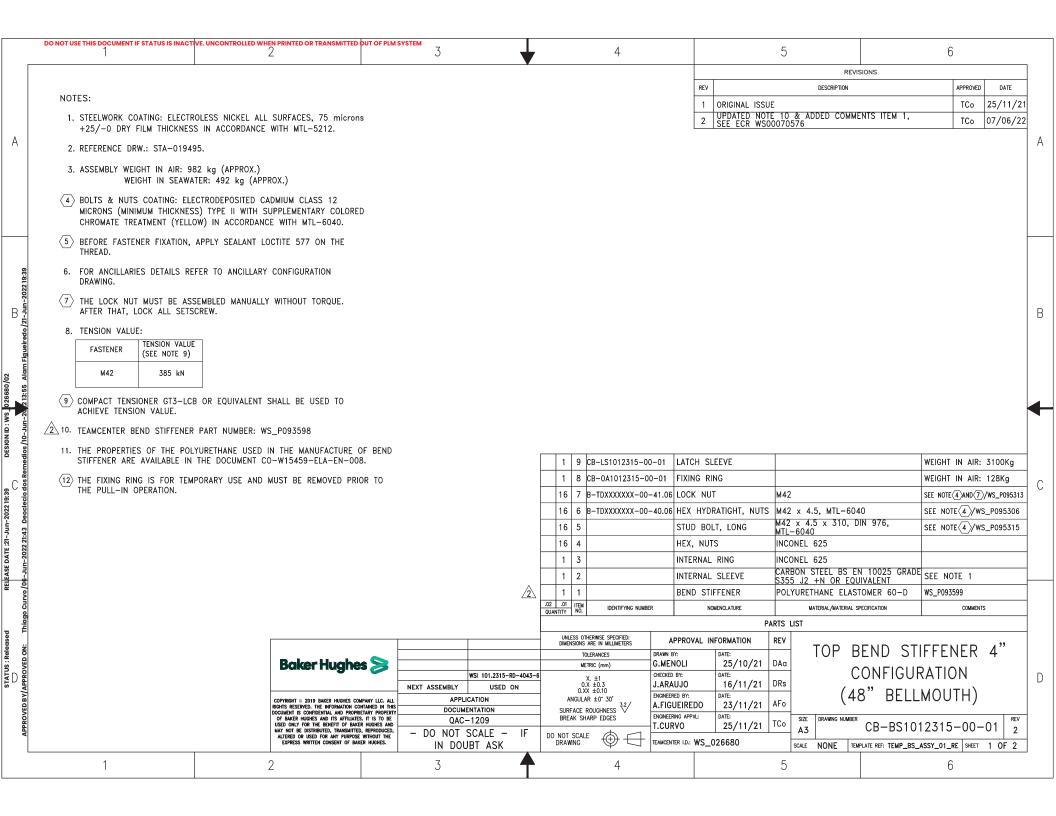
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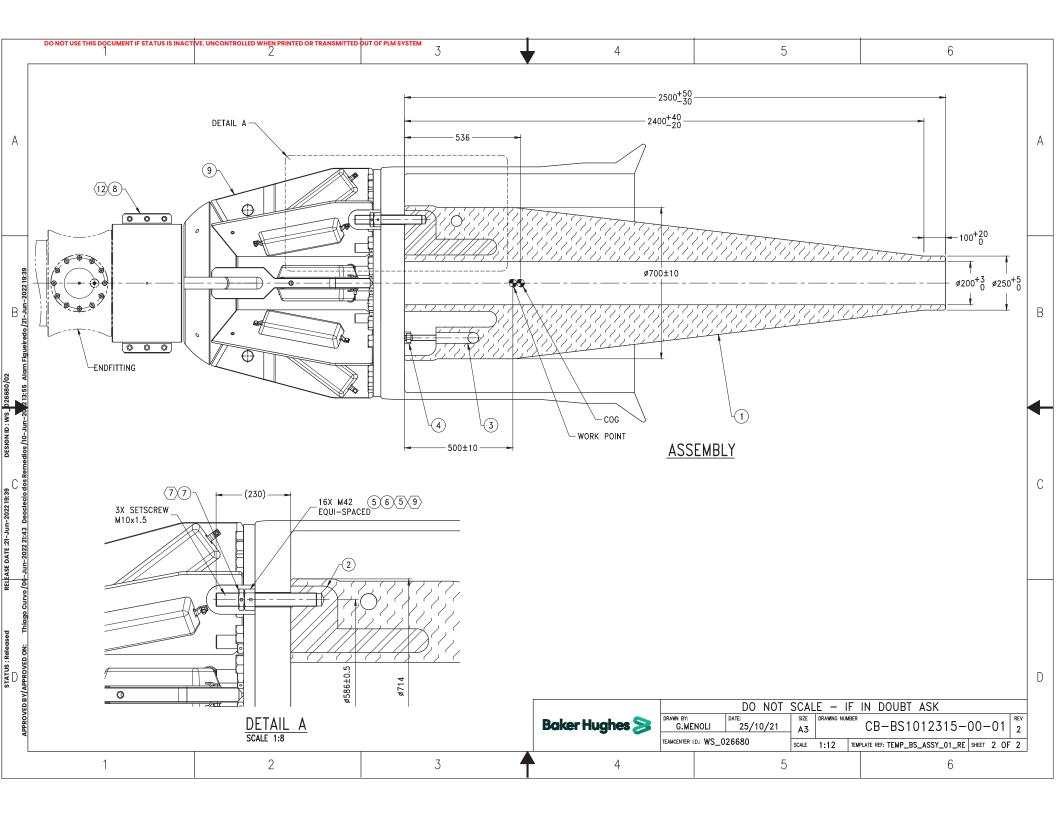
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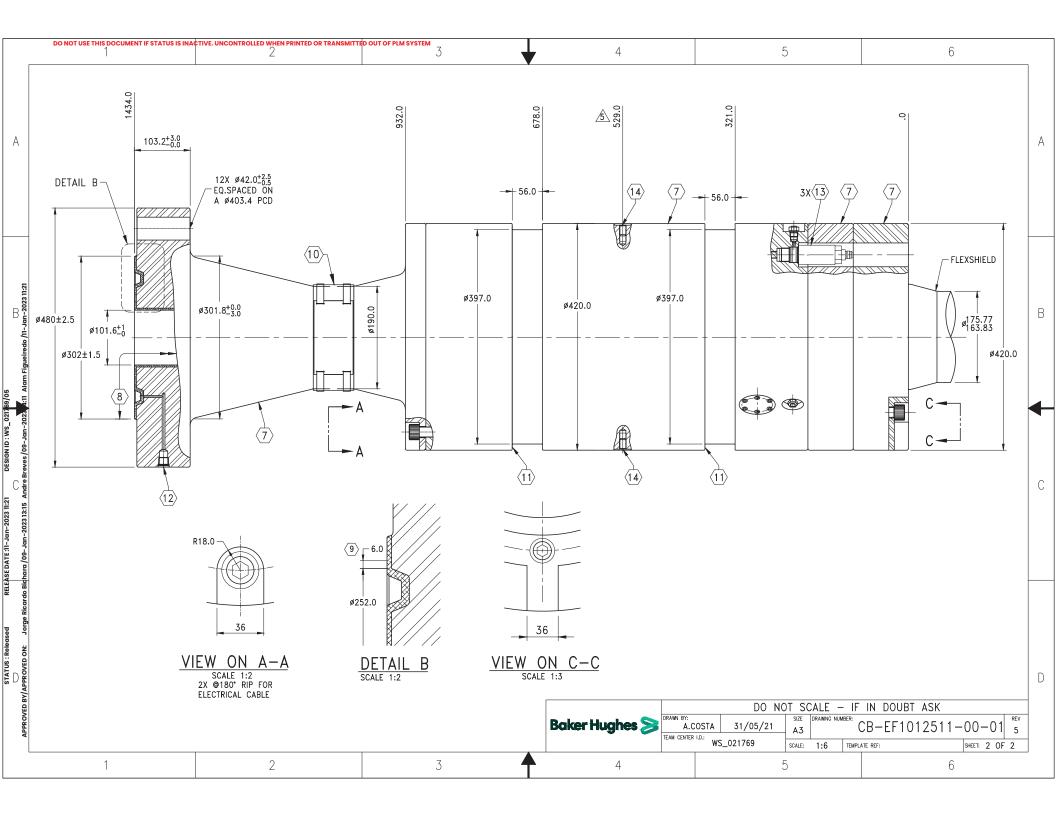
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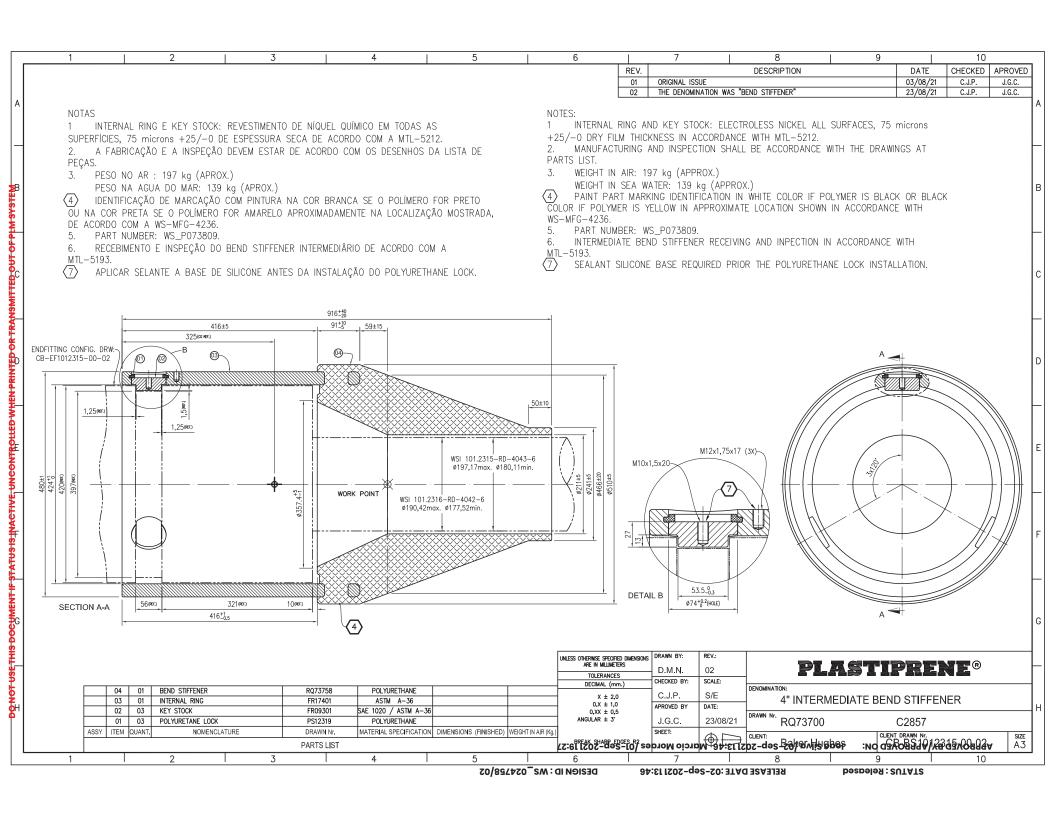
DESIGN ID : WS_021769/05

STATUS: Relea









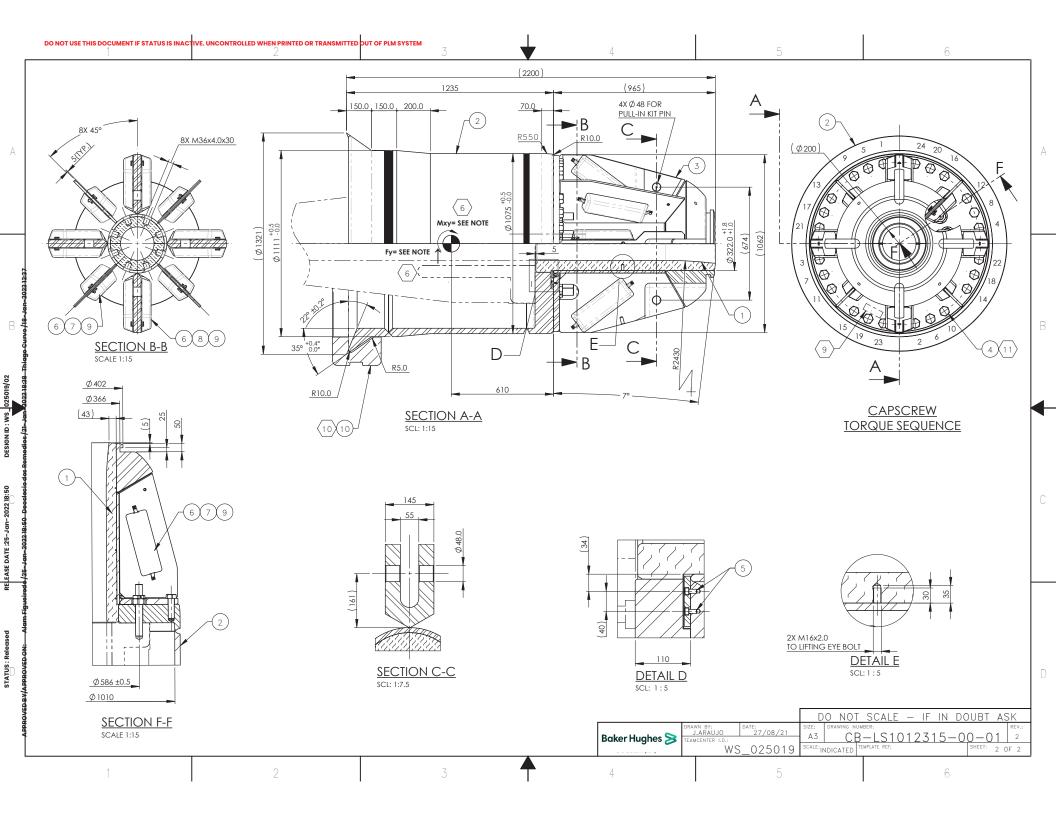
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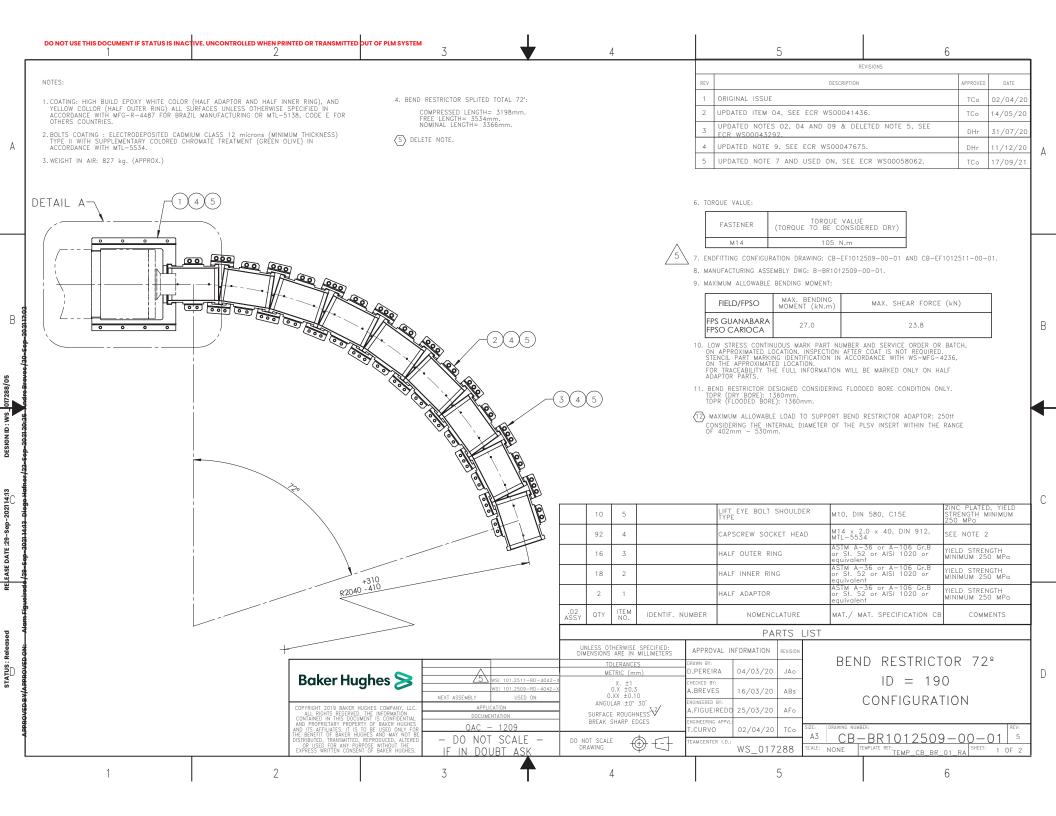
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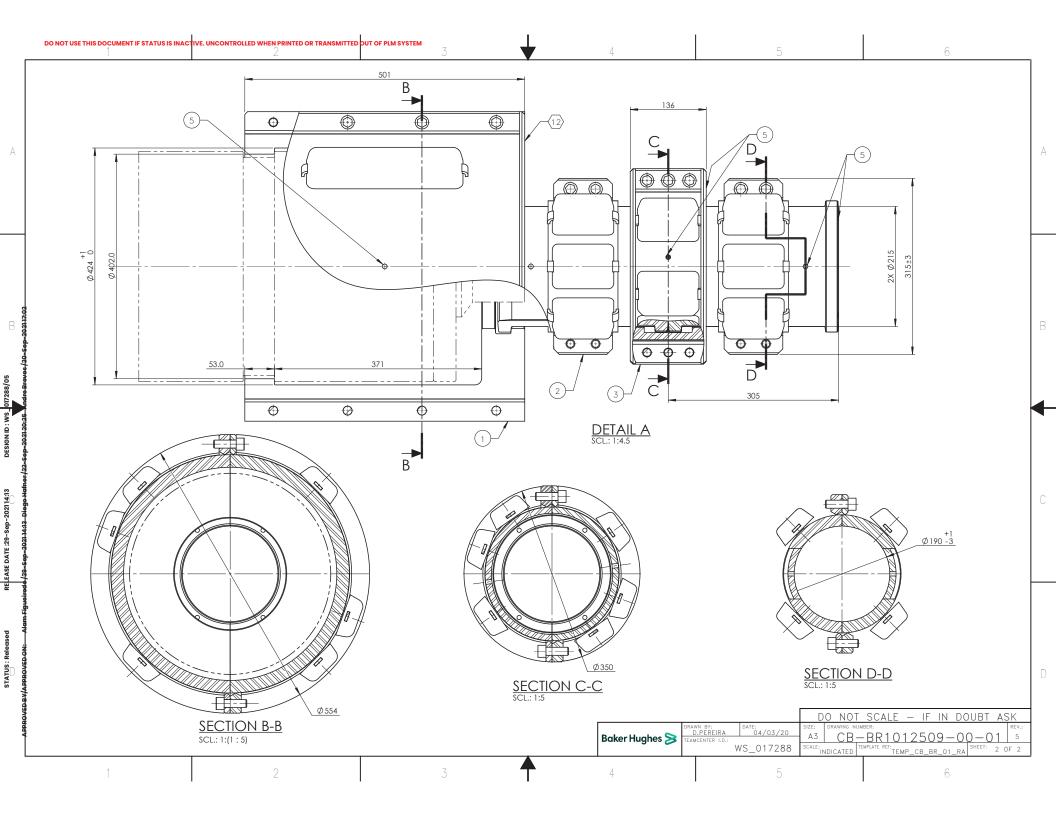
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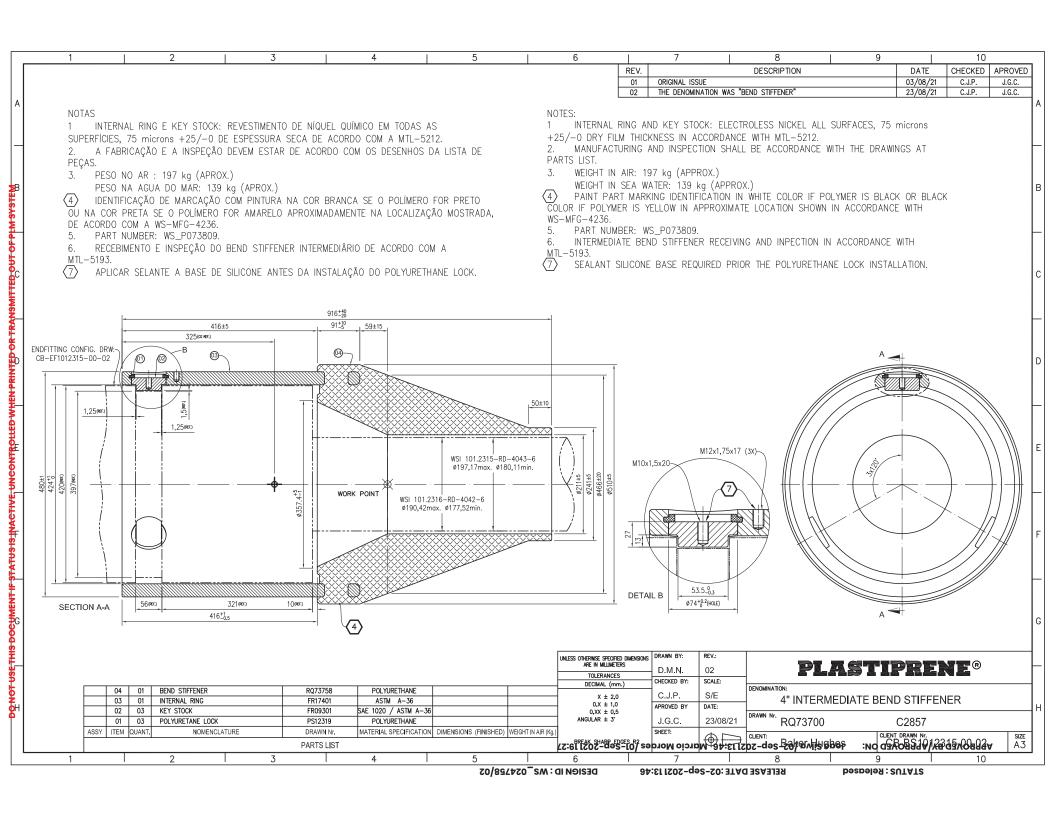
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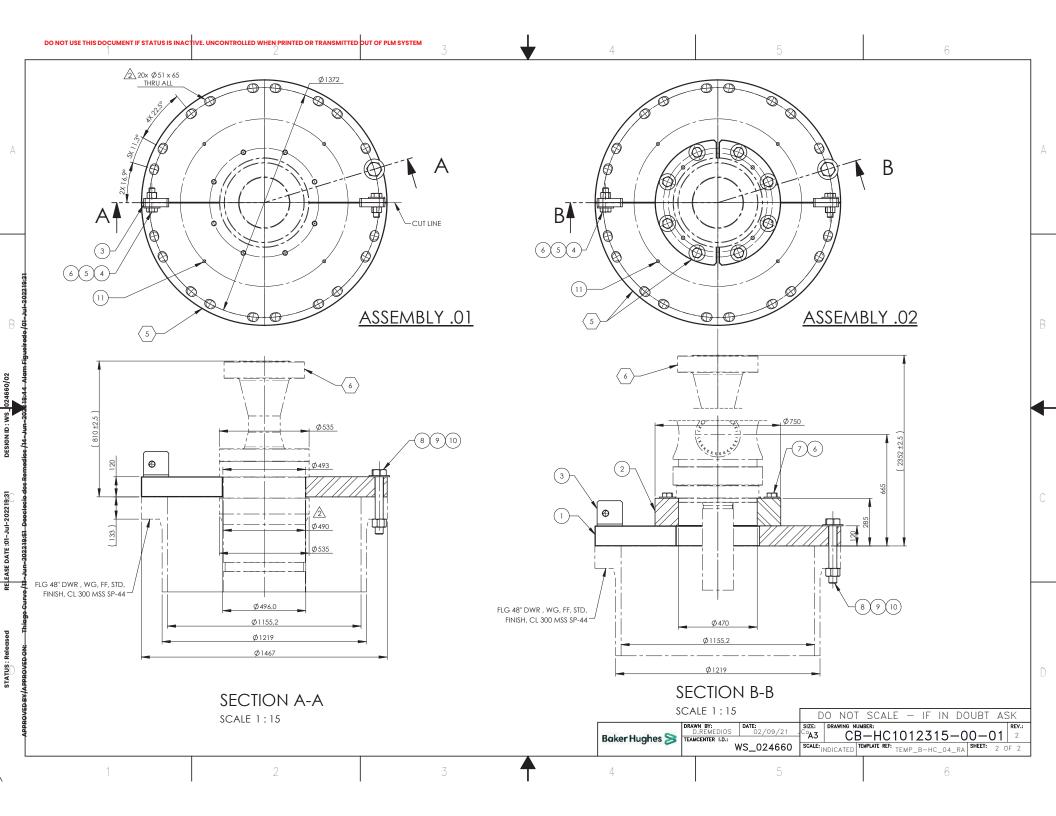
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· · · · · · · · · · · · · · · · · · ·							REVISIONS		
COAT HIGH BUILD EPOXY YELLOW COLOR ALL SURFACES EXCEPT INTERNAL THREADS UNLESS OTHERWISE SPECIFIED IN ACCORDANCE WITH MFG-R-4487					REV.	DESC	RIPTION	APPROVED	DATE
for Brazil manufacturing or MTL-5138, code e for others countries.					1	ORIGINAL ISSUE		TCo	02/09/21
 BOLTS, WASHERS AND NUT COATING: ELECTRODEPOSITED CADMIUM CLASS 12 MICRONS (MINIMUM HICKNESS) TYPE IN UTH SUPPLEMENTARY COLORED CHROMATE TREATMENT (GREEN OLIVE) IN ACCORDANCE WITH MTL-5534. 					2	UPDATED THE ENDFITTING UPDATED DRILL QUANTITY ASSEMBLY 1, SEE ECR V	Y IN TOP VIEW IN	TCo	13/06/22
3. WEIGTH IN AIR: 1825 kg (APPROX.).							-		
TORQUE VALUES TO BE CONSIDERED DRY:									
FASTENER									
1 3/8" 1943 N.m									
(5) LOW STRESS CONTINUOUS AND STENCIL PART MARKING IDENTIFICATION IN ACCORDANCE WITH WS-MFG-4236:									
B-HC1012315-00-01 CB-HC1012315-00-01 MAX. TT: 250ff	4	4	11			LIFT EYE BOLT SHOULDER TYPE	M24, DIN 580, C15E	COMMERCIA	L
NOTE: INSPECTION OF LOW STRESS MARKING COAT IS NOT REQUIRED.	20	20	10			FLAT WASHER	ø1 7/8" AISI B18.22.1 SERIES W TYPE A, STL	SEE NOTE 2	
6 ENDFITTING CONFIGURATION DWG.: CB-EF1012315-00-01.	20	20	9			HEAVY HEX NUT	Ø1 7/8" - 8 UN-2B, ASME B18.2.2, MTL-5534	SEE NOTE 2	
 THE ASSEMBLY OI IS FOR OPERATION AND THE ASSEMBLY (20 IS ONLY FIGHS 2.6 AND AND MAINTENANCE OF THE ENDFITTING MODA SYSTEM, PLEASE ATTENTION TO CHANGE ITEMS 2.6 AND 7 IN ACCORDANCE WITH THE PART LIST. NDE ULTRASONIC RAW MATERIAL PRIOR TO MACHINED UNLESS OTHERWISE SPECIFIED IN ACCORDANCE WITH QC-1516 AND QC-1516 FOR FORGINGS AND IN ACCORDANCE WITH QC-1514 FOR LAMINATION SCANS. 	20	20	8			BOLT HEAVY HEX HEAD	Ø1 7/8" - 8 UN-2A x 13.75" L, ASME B18.2.1, MTL-5534, FULLY THREADED.	SEE NOTE 2	
9. DESIGN FOR MAX. TOP TENSION: 250 Hf DESIGN FOR BURST REACTION LOAD: 284 Hf	8	2	7			BOLT HEAVY HEX HEAD	Ø1 3/8" - 8 UN-2A x 8.0" L, ASME B18.2.1, MTL-5534, FULLY THREADED	SEE NOTE 2	•
	10	2	6			FLAT WASHER	ø1 3/8" AISI B18.22.1 SERIES W TYPE A, STL	SEE NOTE 2	
	2	2	5			HEAVY HEX NUT	Ø1 3/8" - 8 UN-2B, ASME B18.2.2, MTL-5534	SEE NOTE 2	
	2	2	4			BOLT HEAVY HEX HEAD	Ø1 3/8" - 8 UN-2A x 4.75" L, ASME B18.2.1, MTL-5534, FULLY THREADED	SEE NOTE 2	
	4	4	3			TIE PLATE	S355J2 OR EQUIVALENT	YIELD STRENC 295 MPa	TH MINIMUM
	2	-	2			ADAPTOR	S355J2 OR EQUIVALENT	YIELD STRENC 295 MPa SEE	TH MINIMUM NOTE 8
	2	2	1			HALF PLATE	S355J2 OR EQUIVALENT	YIELD STRENC 295 MPa	TH MINIMUM
	.02 ASSY	.01 ASSY	NO.	IDENTIF. NUA	ABER	NOMENCLATURE	MAT./ MAT. SPECIFICATION B	СОМ	MENTS
	<u> </u>					PARTS LIST			
	DII		THERWISE ARE IN OLERANCI	MILLIMLIENS	APPROVA	AL INFORMATION REVISION	NG-OFF COLLAR (CONFIGU	RATION
Baker Hughes S		М	ETRIC (m	nm)	REMEDI	OS 02/09/21 JCo	4" RISER, SW		
NEXT ASSEMBLY USED ON		ANCI	X. ±1 0.X ±0. 0.XX ±0. 0.XX ±0*	3 10 7 70'	SILVA	02/09/21 DRs	(I-TUBE		
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1 2 3	-		4	L		5		6	

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RE_EASE DATE :01-Jul-202219:31

STATUS: Released



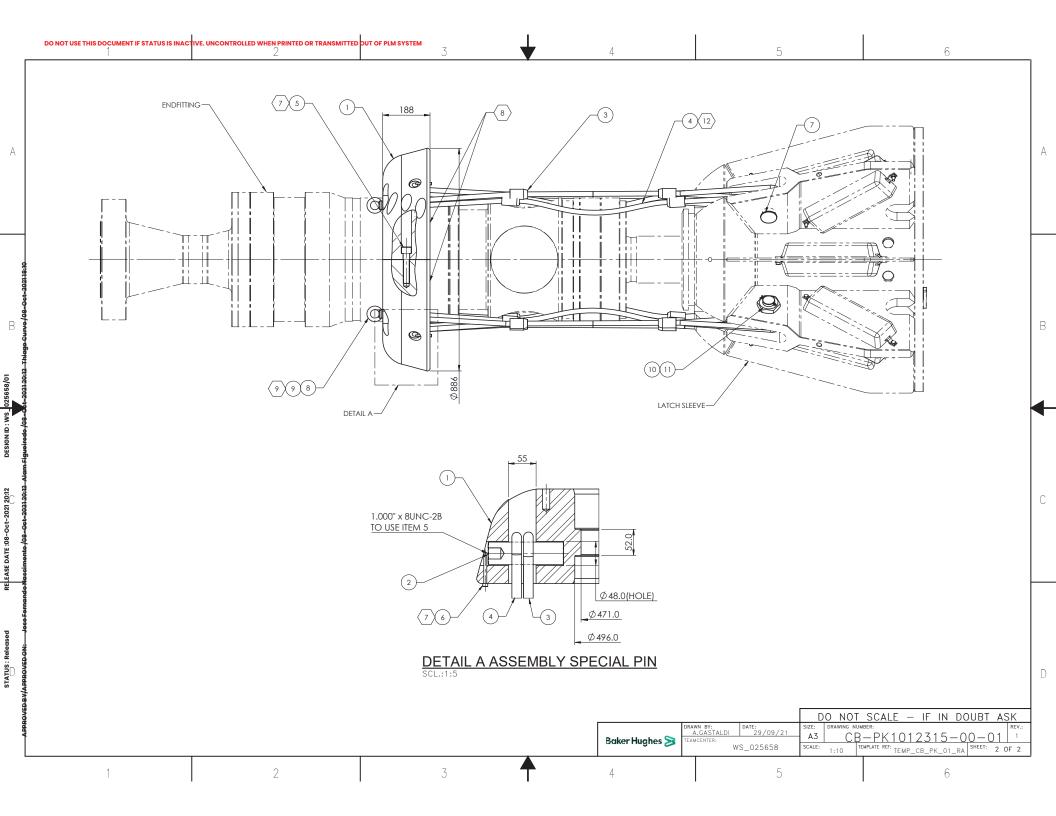
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	·					R	EVISIONS		
NOTES:	200			REV		DESCRIPTION		APPROVED	DATE
 COAT HIGH BUILD EPOXY YELLOW COLOR IN ACCORDANCE WITH MFG-R-4487 FOR BRAZIL MANUFACTURING MTL-5138, FOR OTHERS COUNTRIES. DO NOT COAT INTERNAL SURFACES OF BOLT HOLES OR PIN HOLES. 				1 0	RIGINAL ISSUE			TCo	05/10/21
 BOLTS, PINS AND NUTS, COATING: ELECTRODEPOSITED CADMIUM CLASS 12 MICRONS (MINIMUM THICKNESS) TYPE II WITH SUPPLEMENTARY COLORED CHROMATE TREATMENT (GREEN OLIVE) IN ACCORDANCE WITH MTL- 5534. 	-								
3. WEIGHT IN AIR: 484 Kg. (APPROX.).									
 FOR ASSEMBLY DRAWING SEE: B-PK1012315-00-01. ENDFITTING CONFIGURATION DRAWING: CB-EF1012315-00-01. 									
6. LATCH SLEEVE CONFIGURATION DRAWING: CB-LS1012315-00-01.									
7 TORQUE TABLE (TO BE CONSIDERED DRY).									
FASTENER TORQUE (N.m)									
0.250" 6+1/-0 ft-lbs [9+1/-0 N.m] 1" 508+5/-0 ft-lbs [689+7/-0 N.m]									
8 LOW STRESS STAMP MARKING IDENTIFICATION AND CB-PK1012315-00-01 IN APPROXIMATE LOCATION SHOULD IN ACCORDANCE WITH WS-MFG-4236.	WN								
$\stackrel{ ext{(9)}}{ ext{ EYE}}$ BOLT MUST BE REMOVED BEFORE THE PULL—IN OPERATION AND SET SCREW (ITEM 9) MUST BE INSTALLED.									
10. IN ACCORDANCE WITH ET-3000.00-1500-941-PMU-003 REV.F.									
11. IF NECESSARY THE PULL—IN KIT TO BE MOUNTED BEFORE THE BEND STIFFENER PASS BY THE TOP WHEEL BAKER HUGHES SUGGESTS THE USE OF POLYESTER ROPE FOR PROTECTION OF THE PULL—IN CABLES. THE PROCEDURE MUST BE EVALUATED BY THE INSTALLATION COMPANY FOR EACH OPERATION.									
BAKER HUGHES RECOMMENDS FOR INSTALLATION COMPANY TO HOLD THE BACKUP CABLES (LONGER LENGT TO AVOID INTERFERENCE AND/OR CRUSHING DURING THE PULL—IN OPERATION. AS SUGGESTION, THE INSTALATION COMPANY SHOULD USE A DUCT TAPE ON THIS PROCESS.	Н)								
		4	11		COTTER PIN	6.3 X	56 DIN 94 STL	ZINC PLATE	
(13) THE FIXING RING CB-0A1012313-00-01 MUST BE REMOVED PRIOR TO THE PULL IN OPERATION.		4	10		HEX, THIN NUT	M 45 3 MTL-55	X 4.5 DIN 936, 534	SEE NOTE	2
		4	9		SET SCREW, HEX SOCKET	M16 x CARBON	2 x 30 DIN 913 N STEEL	SEE NOTE	2 AND 9
		4	8		EYE BOLT	1580.	2 X 27, DIN AISI DR EQUIVALENT	YIELD STRE MINIMUM 25 ZINC PLATE	NGTH 50 MPa, ID
₩		4	7		LOCK PIN	MTL-55		SEE NOTE	2
ENDRITTING		4	6		CAPSCREW, SOCKET HEAD	MTL-55		SEE NOTE	2 AND 7
13		6	5		CAPSCREW, SOCKET HEAD	MTL-55		SEE NOTE	2 AND 7
FIXING RING		4	4		WIRE ROPE SINGLE L SLING (FLEMISH EYE)		x 1900 AF 6x36 — EIPS	200/220 K	.gf/mm2
LATCH SLEEVE		4	3		WIRE ROPE SINGLE L SLING (FLEMISH EYE)	EG ø3/4" CLASS	x 1500 AF 6x36 — EIPS	200/220 K	.gf/mm2
		4	2		SPECIAL PIN	MTL-55		SEE NOTE	
CARL - D- DEFA		2	1		HALF COLLAR	Gr. B	A-36 OR A-106 OR ST.52 OR AIS OR EQUIVALENT	SEE NOTE STRENGTH 1 250MPa	1, YIELD MINIMUM
	.02 ASSY	.01 ASSY.	TEM NO. IDE	NTIF NUMBER	NOMENCLATURE	MAT/M	IAT SPECIFICATION	СОММ	ENTS
	_	UNITED OTH	- DWICE CRECIEI	rn	PARTS LI	ST			
			RWISE SPECIFII RE IN MILLIMET RANCES	ED: APPROVAL DRAWN BY:	L INFORMATION REVISION DATE:			T 40"	
Baker Hughes 🔰			RIC (mm) (. ±1 K ±0.3	A.GASTALE CHECKED BY:	DATE:	Р	ULL IN KI	1 4.0	
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HUGHES.	ASK .		<u> </u>	-		NONE	EMPLATE REF: TEMP_CB_I		1 OF 2
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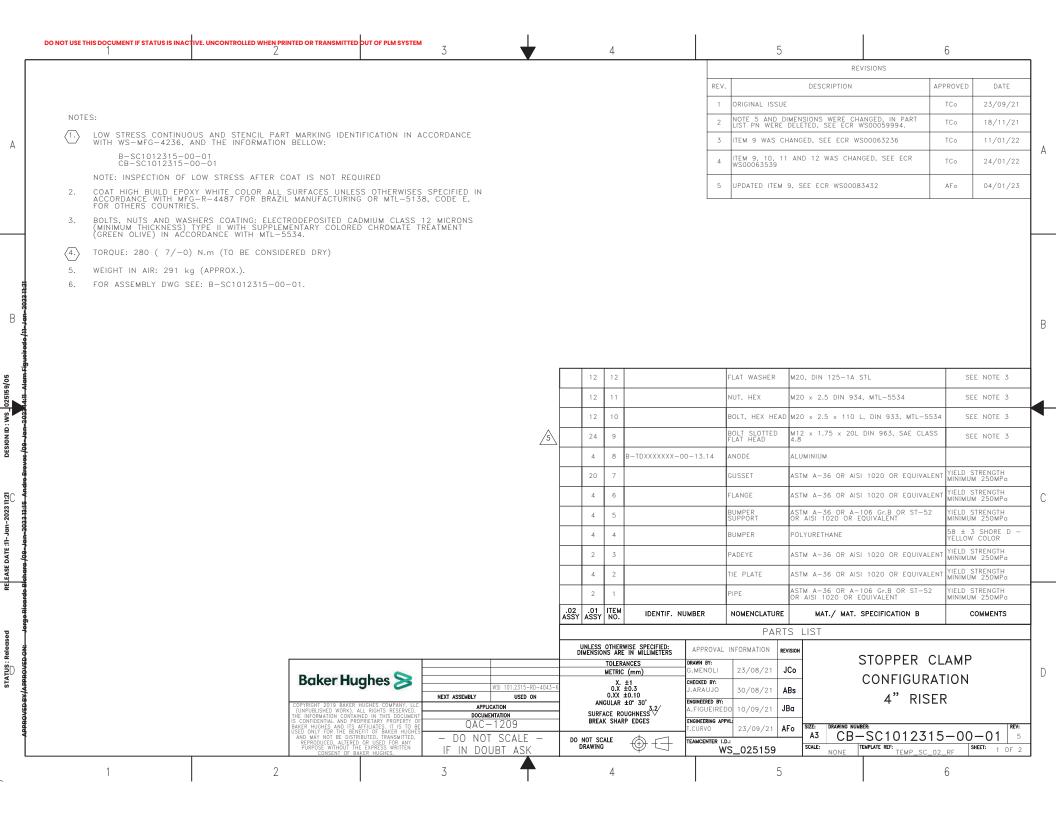
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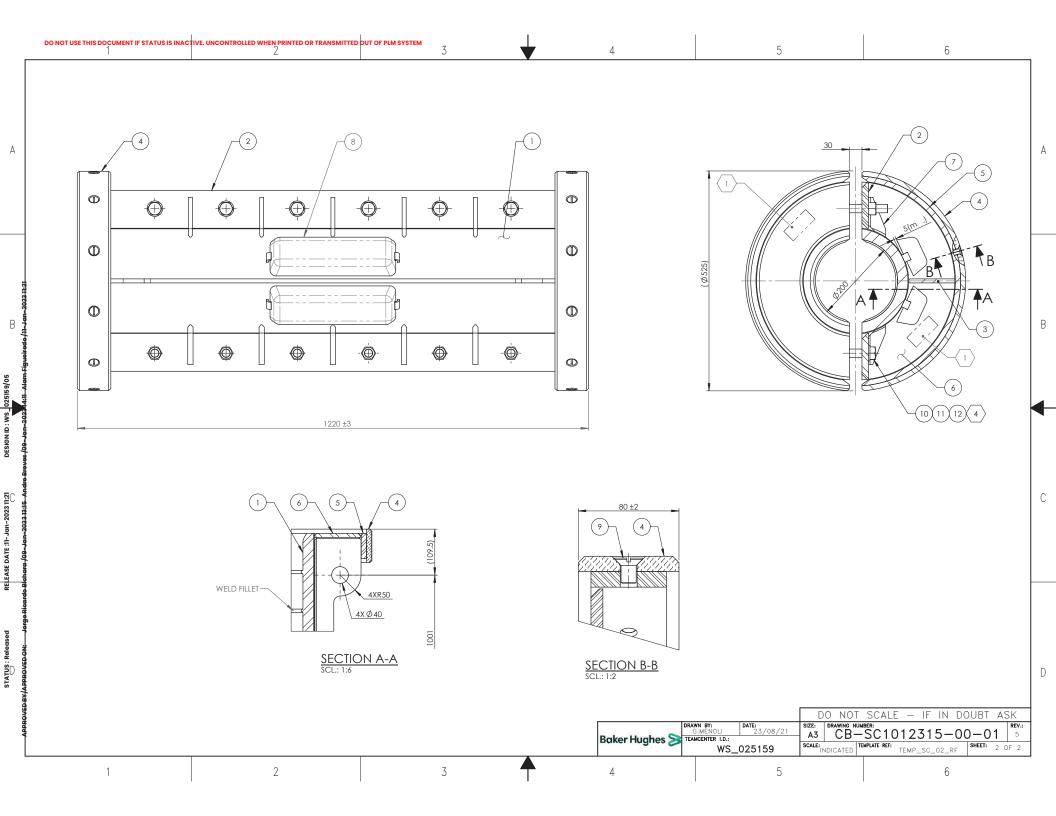
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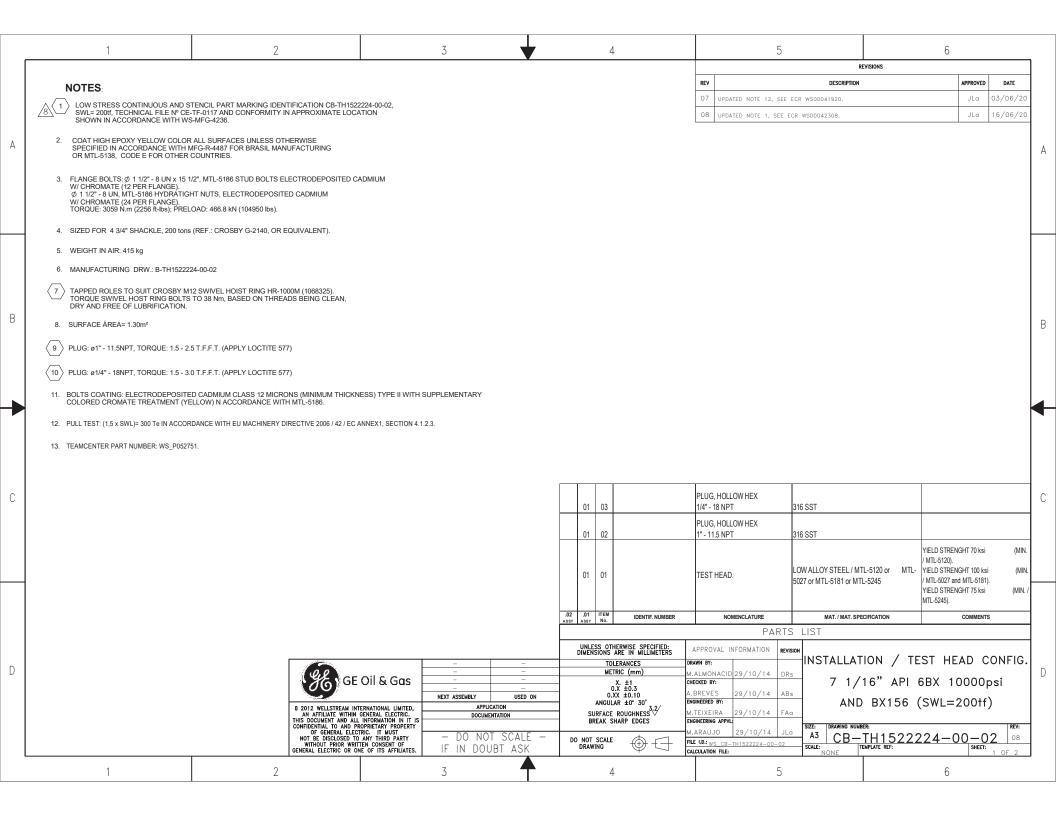
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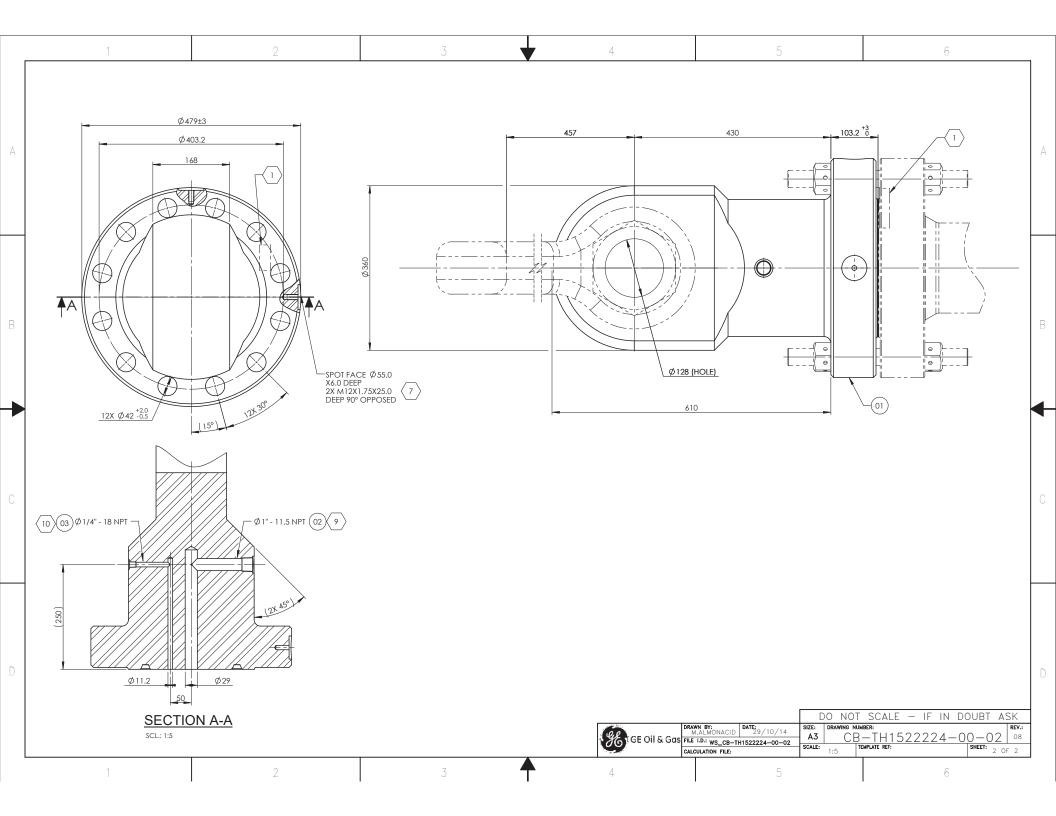
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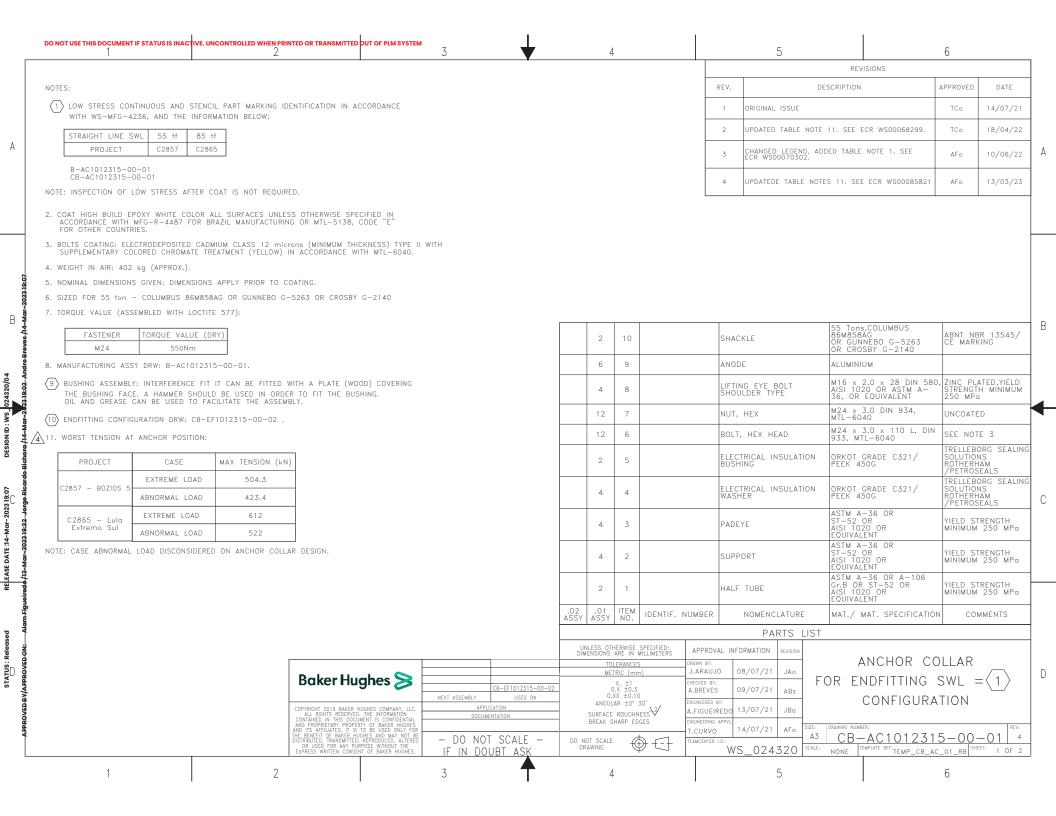


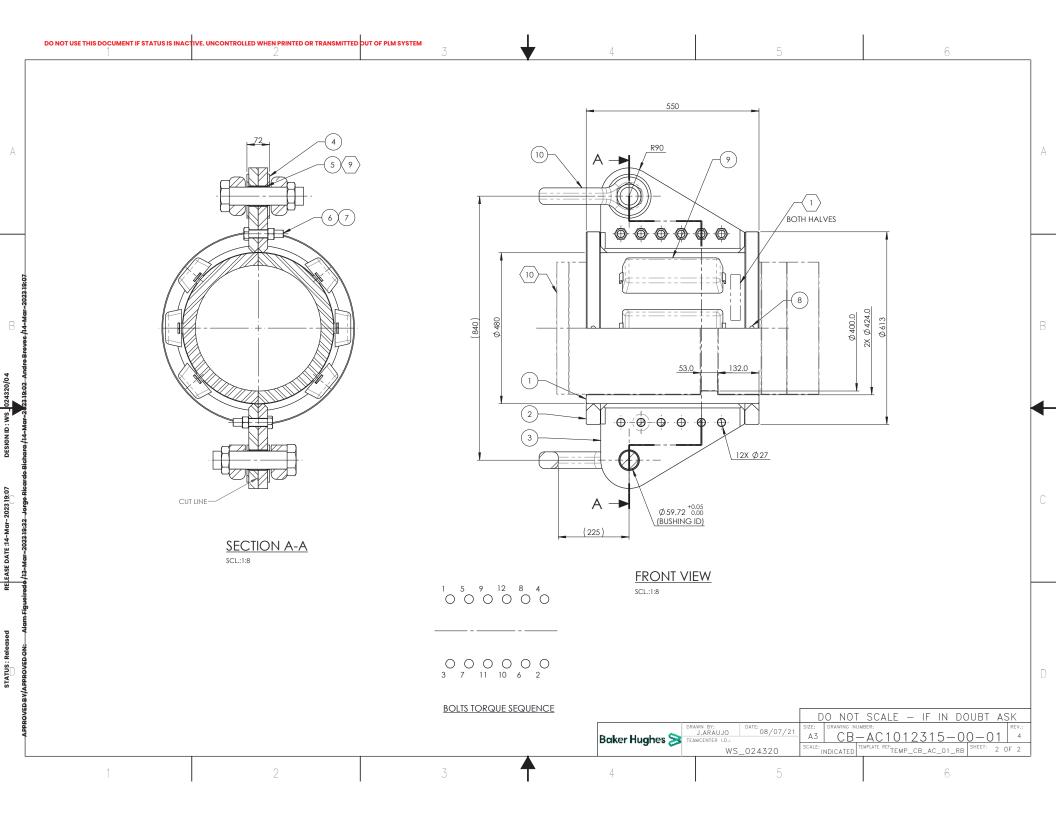


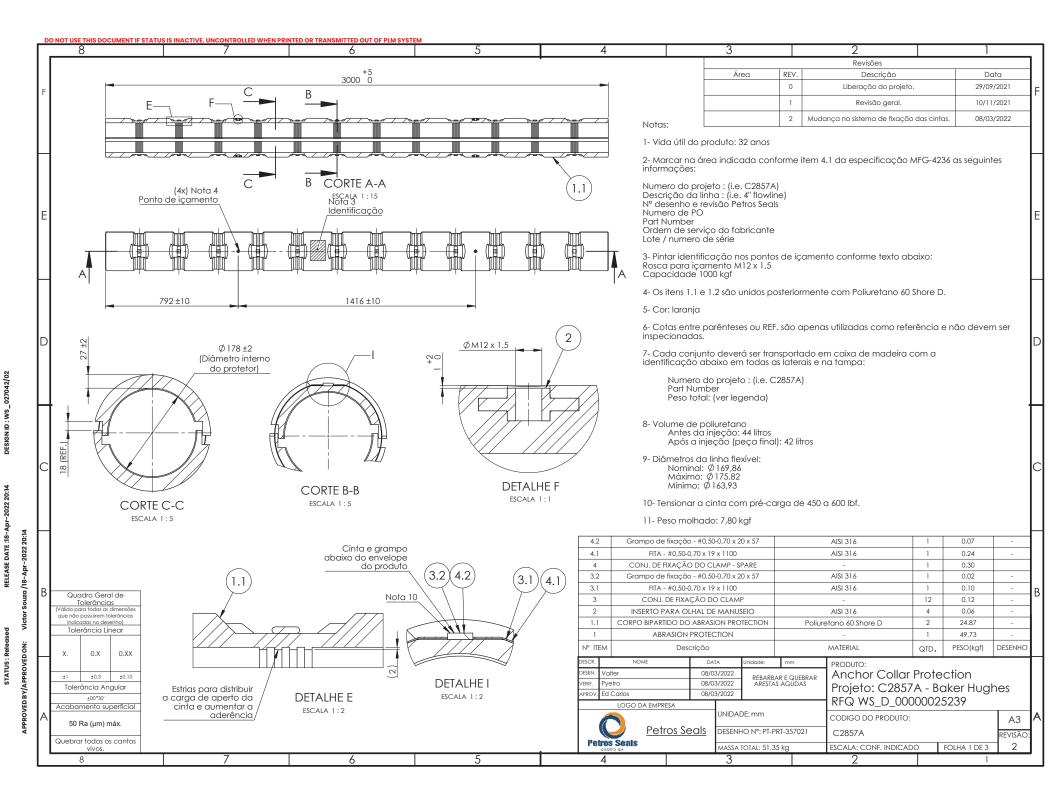


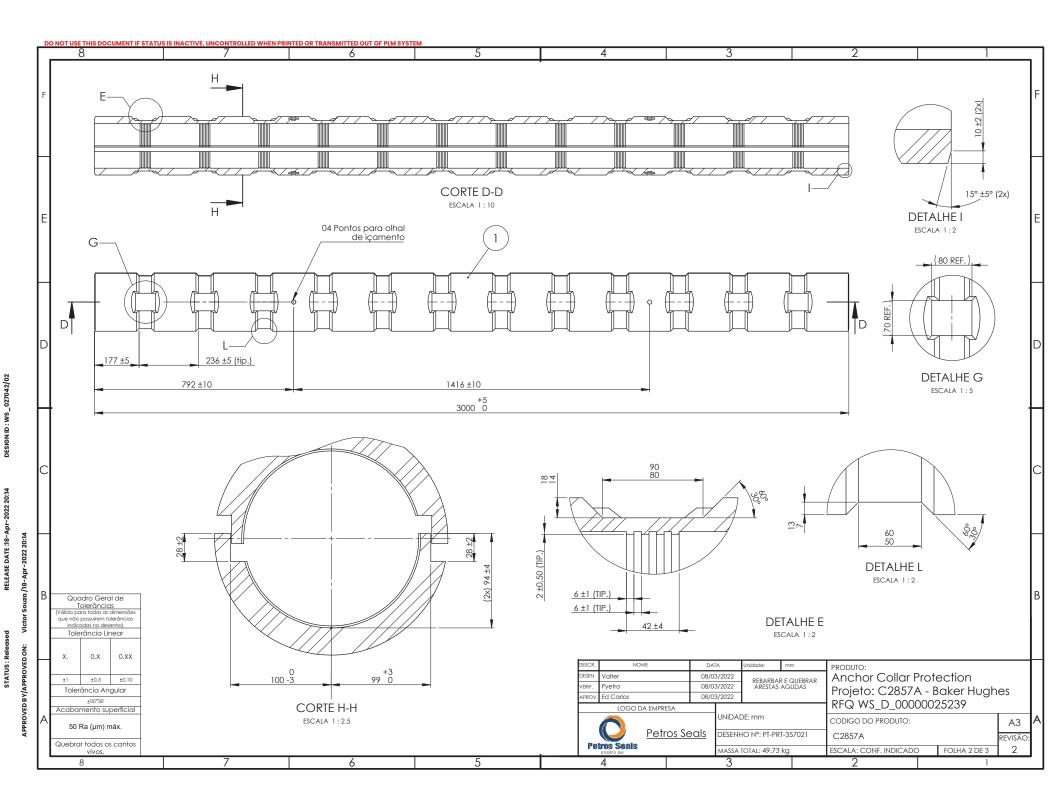


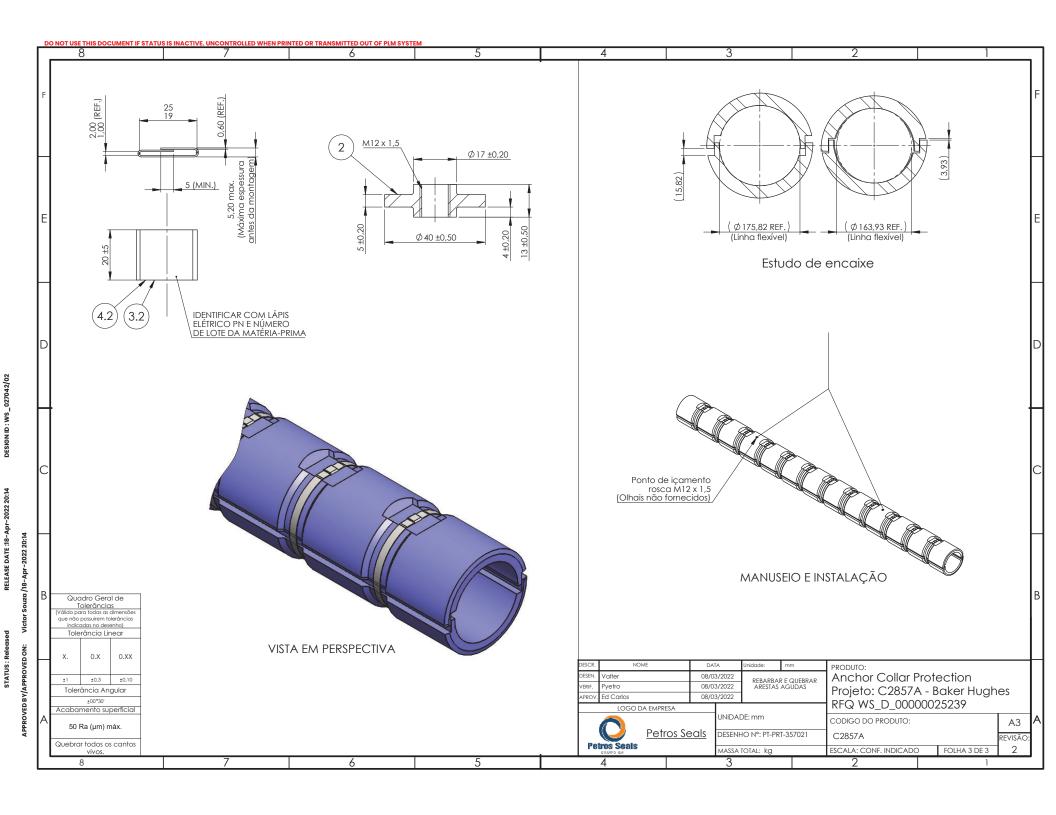












DESIGN ID: WS_030206/02

RELEASE DATE :23-May-2022 17:37

Part		1		1		2	2			3	1			4					6				6
March Marc																							
	PIPE STRUCTURE	ANODE REFERENCE	ANCILLARY ASSEMBLY	Υ			ANODES	ANODES	QUANTITY				1				CABLE QTY		1		BLANKET QTY	ASSEMBLY ARRANGEMENT	
Company of the Comp				ID (mm)	OD (mm)	L (mm)	NET MASS (kg)	GROSS MASS (kg)	(un)			WS_P066252	WS_P067114	14mm (terminal BEND STIFFENER REF	WS_P066252	WS_P067114		LENGHT	WIDTH	THICKNESS			
March Marc	SI 101.2315-RD-4043-6	B-TDCXXXXXX-00-01.16AG	ENDFITTING (INTER	207	420	115	30	31.7	1			2	2		2	2	2	2	150	3	4	1	
Marchane			BEND STIFFENER)						3			N/A	N/A		N/A	N/A	6						
Total Control Total Contro									1		,			14mm (terminal BEND STIFFENER REF.	-	2							
Company Comp	I 101.2316-RD-4042-6	B-TDCXXXXXX-00-01.16AH	ENDFITTING (INTER BEND STIFFENER)	207	420	115	30	31.7										2	150	3	4	1	
State Stat		B.TDCYYYYYY.00.01.19A	ENDETTING	192	260	180	25	36.7	1				_				_	1	200			2	
No.	101.2511-RD-4042-X	4		-					4			-			_				-				
12 12 13 14 15 15 15 15 15 15 15		B-TDCXXXXXX-00-01.19B	ENDFITTING (BEND RESTRICTOR)	182	369	180	35	36.7	4		, , , , , , , , , , , , , , , , , , , ,			, , , , , , , , , , , , , , , , , , , ,				1	200	3	5	3	
10 10 10 10 10 10 10 10		B-TDCXXXXXX-00-01.19C	ENDFITTING	182	369	180	35	36.7										1	200	3	11	2	
Control Cont	101.2511-RD-4042-X		ENDERTRING (CENT	+					1														
\$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000 \$10,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000 \$10,00		B-TDCXXXXXX-00-01.19D	RESTRICTOR)	182	369	180	35	36.7	10	0.3	11mm (terminal ANODE REF.: N° 50)	N/A	N/A	11mm (terminal ANODE REF.: N° 50)	N/A	N/A	20	1	200	3	11	3	
10 10 10 10 10 10 10 10		B-TDCXXXXXX-00-01.19E	ENDFITTING	182	369	180	35	36.7						,				1	200	3	7	2	
March Marc	101.2511-RD-4042-X			192	260	180	25	26.7							1411			1	200	1	7	1	
## PD000000-04-1-10 PD000000000-04-1-10 PD000000000-04-1-10 PD000000000-04-1-10 PD000000000-04-1-10 PD0000000000-04-1-10 PD0000000000-04-1-10 PD0000000000-04-1-10 PD0000000000-04-1-10 PD00000000000-04-1-10 PD000000000000-04-1-10 PD0000000000000-04-1-10 PD0000000000000-04-1-10 PD0000000000000000000000000000000000		D-1DCAAAAA-90-01.19F	RESTRICTOR)	102	309	100	30	30.1								_		'	200	3		3	
Bit Description Descript	101 2511.RD.4042.V		ENDFITTING	182	369	180	35	36.7										1	200	3	3	2	
## DECOMPAGNIC DICTITIC COLUMN TO TO DICTITIC COLUMN TO			ENDFITTING (BEND RESTRICTOR)	182	369	180	35	36.7	1 2			1.011						1	200	3	3	3	
10 13 15 15 15 15 15 15 15		+		+	369	180	35	36.7	1	0.3	21mm (terminal OUTER COLLAR REF.: N° 150)	N/A	N/A	11mm (terminal ANODE REF.: N° 50)	N/A	N/A	2	1	200	3	6	2	
## 15000000000000 10 30 30 30 30 30 30 30 30 30 30 30 30 30		B-TDCXXXXXX-00-01 198	ENDFITTING	182								1	N/A	I	N/A	N/A	10		1	1	1 -	1 .	
Add PDF file on Teammenter v-W500070038 **July **La***	'SI 101.2511-RD-4042-X								5							_	2						
Multicle And Inflammatics It is to be found on your year The BORERT OF BANKEN HAUMES IN IN YOUR BORERT OF BANKEN HAUMES IN INFLAMMATICS REPRODUCED. ALTER TO BE BORERT OF BANKEN HAUMES IN INFLAMMATICS REPRODUCED. ALTER TO BE BORERT HAUMES IN INFLAMMATICS REPRODUCED. AND WORLD NOT BE BORER HAUMES IN INFLAMMATICS REPRODUCED. AND WORLD NOT BE BORERT HAUMES IN INFLAMMATICS REPRODUCED. AND W	/SI 101.2511-RD-4042-X		ENDEITTING (BEND					36.7	1	5	21mm (terminal BODY REF.: N* 95)	N/A	N/A	11mm (terminal ANODE REF.: N° 50)	N/A	N/A		1	200	3	6	3	
1 Initial Issue J.La 1205/2022 OHECKED IN: SOLIZA 1205/2022 A3 CB-TDC2857XX-00-01	WSI 101.2511-RD-4042-X		ENDEITTING (BEND					36.7	1	5	21mm (terminal BODY REF.: N* 95)	N/A	N/A	11mm (terminal ANODE REF.: N° 50)	N/A	N/A		1	200	3	6	3	
	WSI 101.2511-RD-4042-X		ENDEITTING (BEND					36.7	1	5	21mm (terminal BODY REF. N° 96) 11mm (terminal ANODE REF. N° 50)	N/A N/A	NIA NIA	11mm (terminal ANODE REF.: N° 50)	N/A N/A	NIA NIA		1	COPYRIGHT 0 2019 BAKER HUG. NUMBER COMPANY LLC. ALL INFORMATION CONTABLE THE BENEFIT OF BAKER HAS THE BENEFIT OF BAKER HAS COMEDN OF BAKER MAME	es cospany si si pa modra reservo. Tel in Tel coccuser i si per si cos si consultario. Tel consultario si consultario si per si cos si consultario. Tel Tel convessi si consultario si consultario.	KER ER OF	Baker I ANODE C DRAWING NUMBER	C2857 COLLAR TABLE

Victor Souza /23-May-2022 17:37 Joan Lima /23-May-2022 16:54

APPROVED BY/APPROVED ON:

