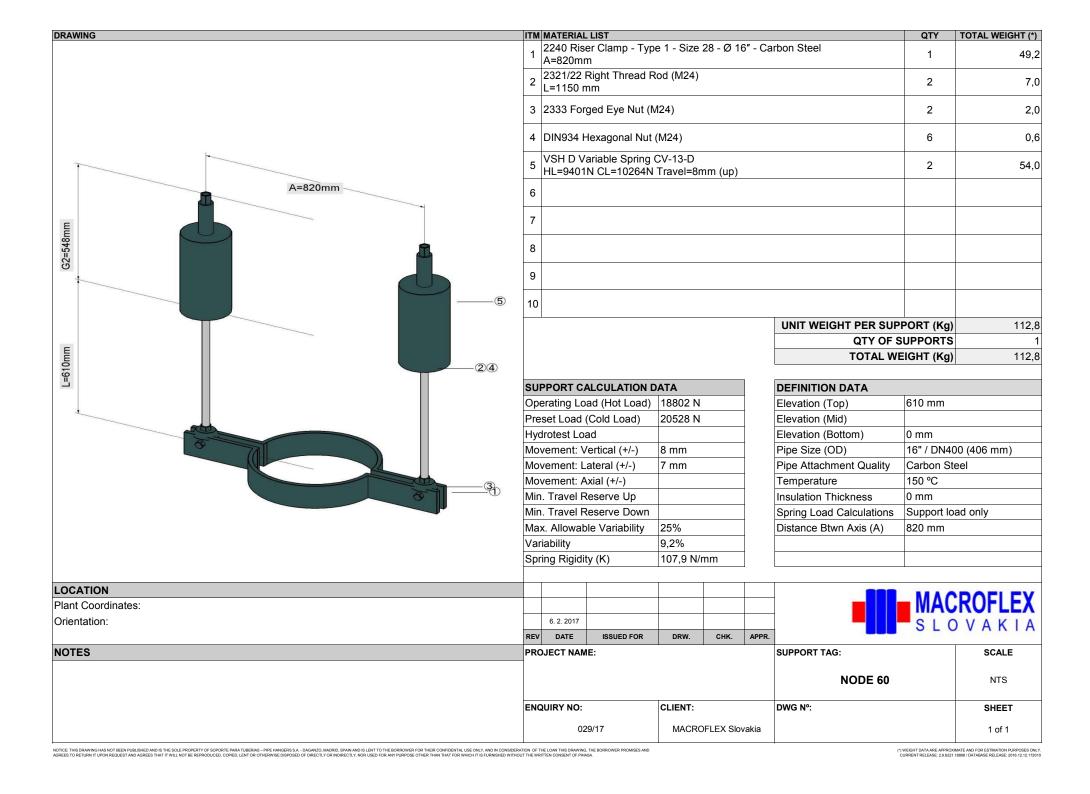
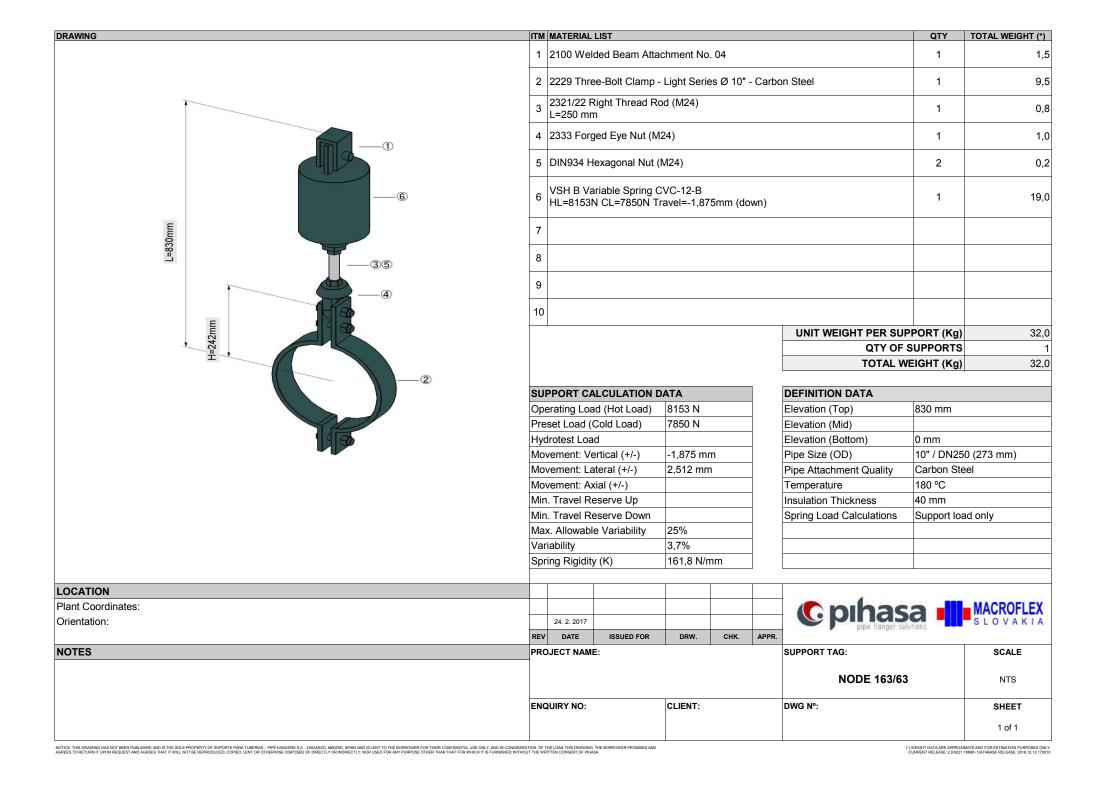
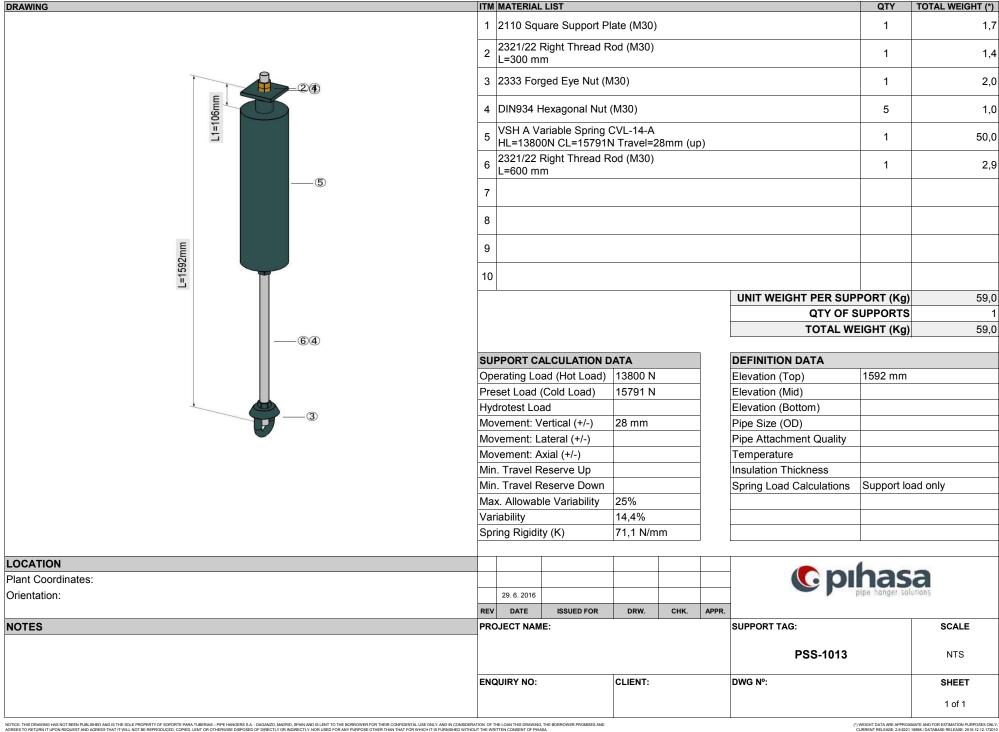


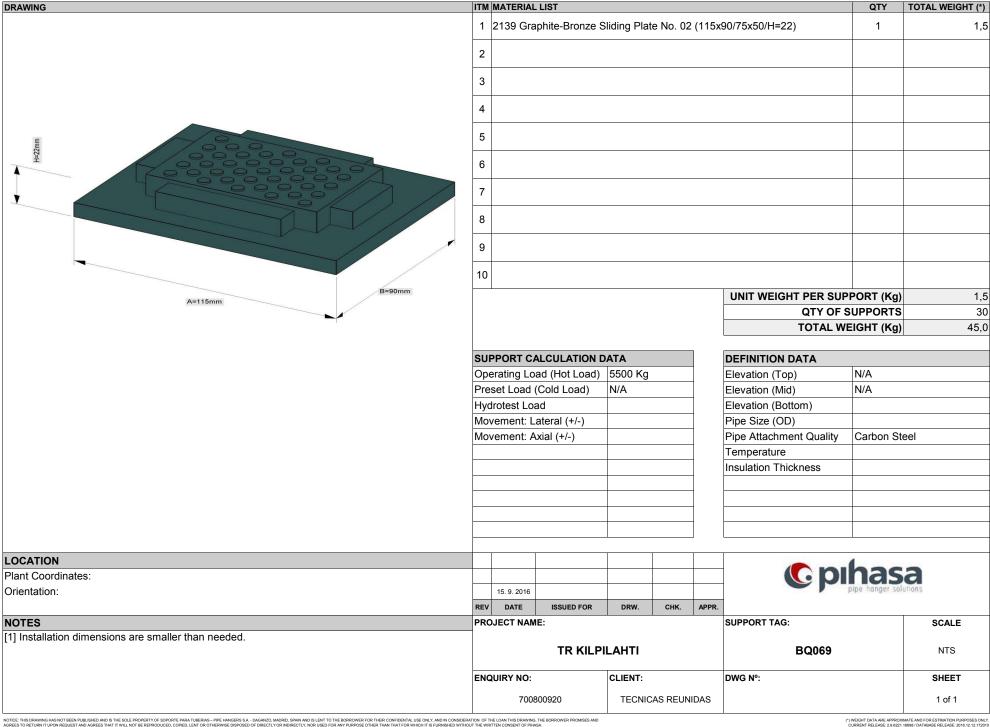
DRAWING	ITM MATERIAL	LIST				QTY	TOTAL WEIGHT (*)
	1 CSH-C54 Load=650	Constant Sprir 0Kg Actual Tra	1	373,0			
	2						
	3						
	4						
	5						
	6						
	7						
	8						
B=755 (±25) mm	9						
	10						
					UNIT WEIGHT PER SU	PPORT (Kg)	373,0
						SUPPORTS	
			TOTAL V	/EIGHT (Kg)	1492,0		
	SUPPORT CA	LCULATION D	DATA		DEFINITION DATA		
	Operating Loa	d (Hot Load)	6500 Kg		Elevation (Top)		
	Preset Load (0	Cold Load)			Elevation (Mid)		
	Hydrotest Load	d	12000 Kg	3	Elevation (Bottom)		
	Movement: Ve	rtical (+/-)	60 mm		Pipe Size (OD)	24" / DN60	00 (610 mm)
	Movement: La		0 mm		Pipe Attachment Quality	Carbon Ste	eel
	Movement: Ax		0 mm		Temperature	300 °C	
	Min. Travel Re				Insulation Thickness		
	Min. Travel Re				Spring Load Calculations	Support lo	ad + accesories
	Max. Allowable	e Variability	25%				
	Variability	40	0%				
	Spring Rigidity	' (K)	0 Kg/mm				
LOCATION						400	
Plant Coordinates:					(C pi	nas	d
Orientation:	15. 9. 2016					pipe nanger soi	Ullons
NOTES	REV DATE PROJECT NAME	ISSUED FOR	DRW.	CHK. APPR	SUPPORT TAG:		SCALE
		TR KILP	ILAHTI		BQ051		NTS
	ENQUIRY NO:		CLIENT:		DWG N°:		SHEET
					5.10 N .		
	7008	00920	TECNIC	CAS REUNIDAS			1 of 1
NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF SOPORTE PARA TUBERIAS - PIPE HANGERS S.A DAGANZO, MADRID, SPAIN AND IS LENT TO THE BORROWER FOR THEIR CONFIDENTIAL USE	ONLY, AND IN CONSIDERATION OF THE LOAN THIS DRAWING,	THE BORROWER PROMISES AND				(*) WEIGHT DATA ARE APPROX	XIMATE AND FOR ESTIMATION PURPOSES ON

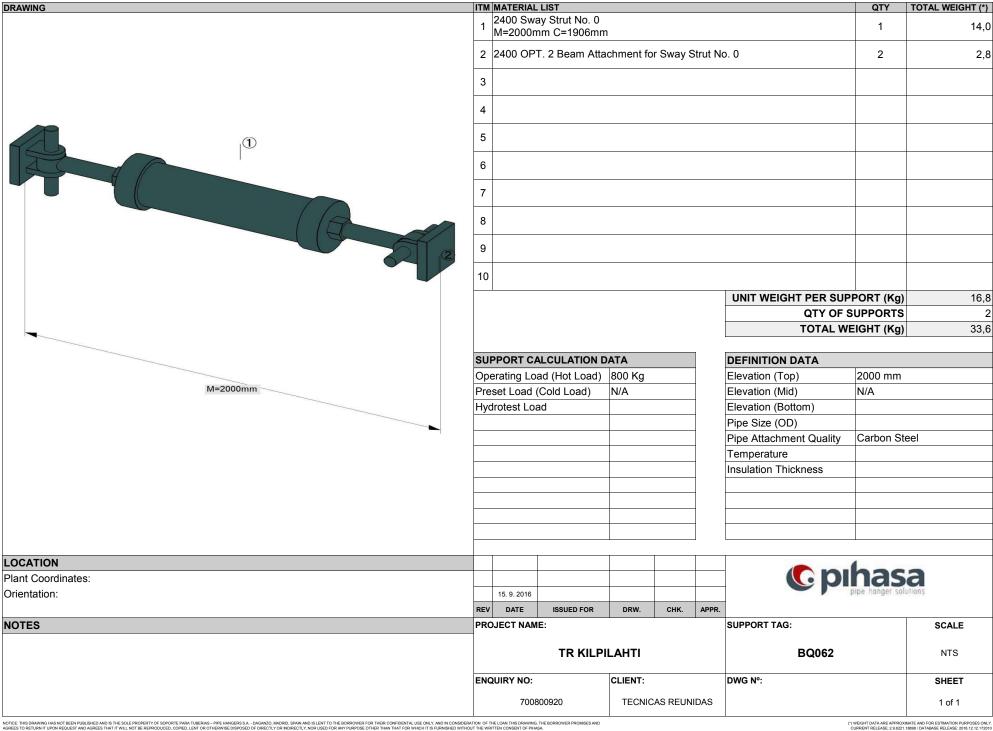




DRAWING		MAIERIAL						QTY	TOTAL WEIGHT (*)	
	1 1	VSH F Va HI =479N	ariable Spr I CL=596N	ring CV J Trave	/L-2-F 4=47 533	Smm (un)		1	9,0	
		112 47514	02 0001	Tilavo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mm (up)				
	2									
	3									
	4						UNIT WEIGHT PER SUPPORT (Kg) 9,0 QTY OF SUPPORTS 1 TOTAL WEIGHT (Kg) 9,0 DEFINITION DATA Elevation (Top) Elevation (Mid) Elevation (Bottom) Pipe Size (OD) Pipe Attachment Quality Temperature Insulation Thickness Spring Load Calculations Support load only C APPR SUPPORT TAG: SCALE AC1HAN75BR004-node3490 NTS DWG N°: SHEET			
	-									
	5									
	6									
me.	7									
S=491 (±25) mm	8									
91 (4										
8=8	9									
	10									
								LINIT WEIGHT DED SUDDORT (Kg)	0.0	
									1	
U=155mm										
			au ertical (+/-)) /	47,533 m	ım				
V=195mm			ateral (+/-)	-	+1,555 111	1111				
				,						
	Min. Travel Reserve Down									
	Max. Allowable Variability 25%			opining zoda odrodiatione oupport is	<u></u>					
		ability		-	24,9%					
		ng Rigidit	y (K)		2,5 N/mm	า				
			T			1 1				
LOCATION Plant Coordinates:	4-							(C) nihas	12	
Orientation:		5. 9. 2016						pipe hanger so	lutions	
			ISSUED F	FOR	DRW.	снк.	APPR.			
NOTES		JECT NAM							SCALE	
			ABENGO	OA KH	II 0903/1	6		AC1HAN75BR004-node3490	NTS	
	ENQI	JIRY NO:		C	CLIENT:			DWG N°:	SHEET	
		E-MAIL	05/09/16		Al	BENGOA			1 of 1	
INTERCED THE PORNING HER NOT DEED AT BIT ISLE ON AND IS THE ONE DODGEDTY AS YOUR DECIDION OF DEED AND THE COLOR AND IS THE ONE DODGED TO AS AND	ION OF THE LO	ANTHIS DRAWING THE	E BORROWER PROMISES	S AND AGREES				(*) WEIGHT DATA ARE ARROY	VIMATE AND EOD ESTIMATION DISPOSES ON V	







DRAWING		MATERIAL						QTY	TOTAL WEIGHT (*)
	1	2400 OP Steel 16N E3=358m	Mo3	c Snubber Ø 10" - Alloy	1	51,0			
	2	BAHS Be	eam Attachmen	t for Hydr	aulic Snı	Size 4"	1	15,0	
	3	HS Hydra M=1300r	aulic Snubber M mm Extension=4	lod. 201 <i>A</i> 43mm Cc	5" Im L2=852mm	1	59,0		
	4								
0	5								
3	6								
2	7								
	8								
	9								
E3=358mm	10								
							UNIT WEIGHT PER SUP	PORT (Kg)	125,0
M=1300mm							QTY OF S	UPPORTS	1
				EIGHT (Kg)	125,0				
	011		41 0111 4 7 1011 B			1			
					DEFINITION DATA Installation Length 1300 mm				
				111000 N N/A			Installation Length	N/A	
	_	drotest Lo	,	N/A		-	Elevation (Mid) Elevation (Bottom)	N/A	
		avel Extens		43 mm		-			50 (273 mm)
				0 mm		-	Pipe Size (OD)	Alloy Stee	
		Travel Compression Movement: Axial (+/-) Min. Travel Reserve Ext.		32 mm		-	Pipe Attachment Quality Temperature	400 °C	1 1010103
						-	Insulation Thickness	140 mm	
			Reserve Comp.			-	Insulation Thickness	140 11111	
						-			
LOCATION								1	
Plant Coordinates:							(C pi	nas	a
Orientation:	REV	22. 4. 2016 DATE	ISSUED FOR	DRW.	снк.	APPR.		pipe hanger sol	
NOTES	_	OJECT NAM			J.III.		SUPPORT TAG:		SCALE
							HSA-016		NTS
	ENC	QUIRY NO:		CLIENT:			DWG N°:		SHEET
		13101D_PI-	-RQ-PX700-01		SK				1 of 1
INDICE. THIS DRAWING HIS NOT EEEN PAULUSED AND IS THE SOLE PROPERTY OF SOPORTIE PARA TUBERNAS - PPE HANGERS S.A ANDANZO, MORRO, SPAIN AND IS LEINT TO THE BORROWER FOR THEIR COMPORTAL, USE ONLY, AND INCOME AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT WILL NOT BE REPRODUCED, COPED, LEINT OR OTHERWISE DISPOSED OF DIRECTLY OR ROBERCTLY, NOR LISES FOR ARY PLAPPOS OTHER THAN THAT FOR WHICH IT IS FLAMES	NSIDERATIC	DN OF THE LOAN THIS D'	DRAWING, THE BORROWER PROMISES				C)W	/EIGHT DATA ARE APPROXI	MATE AND FOR ESTIMATION PURPOSES ONLY. 1898 / DATABASE RELEASE: 2016.12.12.172010