1	A I. Bocal	B Wing1	C Wing2	D Wing3	E Original bocal; Pezé3 Looks like it could be original	F	G	Н	I
2	dia reed end	iigi	••mgz	mgo	inside diameter of reed end of bocal			口	
	bocal string length (0, 1) metal bocal length top (0, 1)				length of bocal inserted into receiver meas. along top of bocal			\vdash	
5	metal bocal length bot (0, 1)				meas. along bottom of bocal inside diameter of bocal			\Box	
7	dia wj end								
9	bocal logic	2	2	2	if bocal logic = 0 => bocal is choke; if bocal logic = 1 =>choke in wing joint calc; if bocal logic = 2	=> no bocal			
10								\Box	
11									
	II. Wing Joint Lengths choke bore dia.	10.8	10.3	10.1	bocal receiver: Pezé3 no logic 1; bore diameter of choke; logic 0; either diameter bocal bottom or beginning of bore at bott	om or receiver		\vdash	
15	receiver length (1, 0) (formally choke length)	72	56	67	logic 1; length of choke from top of wing joint; logic 0; length of receiver (same as string length)	OIII OI TECCIVEI			
	wing joint length tenon length	524 46.3	534 47.8	534 47	total wing joint length, including tenon and socket tenon length			\leftarrow	
18	wj f2	228	228	227	dist top of wing to where tone hole enters bore [not at the center of the tone hole]			\blacksquare	
20	wj iz wj e	305	295	297	disc top of wing to where tone note enters bore (not at the center of the tone note)			\Box	
21	wi d	343	334	333					
23	Bore dia. Bottom of wing joint	15.5	13.9	14.1	Need to Average, usally oval; Pezé3 slightly oval			\dashv	
25	Bore dia. top of boot joint small side Bore dia. top of boot joint large side	14.6 24.2	14.6 24.2	14.6 24.2	Pezé3 vrfd smaller than tenon				
26 27	III. Boot Lengths								
28	bj logic	1	1	1	logic=> if bj logic = 0 => plug removed; if bj logic = 1 => plug cannot be removed			H	
30	bj b	90 152	90 152	90 152	dist from top of boot to where topmost tone hole enter bore [not at center of tone hole]			d	
31	bj a	190	190	190	Pezé3, meas. With boot cap not removed, but compensited for cap			H	
33	bjstotal [Needed for both boot logics]	438	438	438	total length of boot, include socket, along the small bore side			Ħ	=
35	bjltotal [Needed for both boot logics] plug small [Need for logic 0 only]	438 0	438 0	438 0	total length of boot, include socket, along large bore side plug thickness, large bore side				
	plug large [Need for logic 0 only]	0	0	0	plug thickness, small bore side			F	
38	boots [Needed for both boot logics]	396	396	396	hook length along s bore => bjs-septum length = boot - septum <= calc the septum			口	
40	bootl [Needed for both boot logics]	396	396		hook length along I bore => bjl-septum length = boot - septum <= calc the septum				
41	boots bottom [Needed for both boot logics] bootl bottom [Needed for both boot logics]	18.5 18.5	18.5 18.5	18.5 18.5	use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of stick] 11.5 + 7=18.5 use hook, dist of bore [same as boots bot except tenon depth will be different]			H	
43								Ħ	
44	extreme bore [Needed for logic 1 only]	40.9	40.9	40.9	Outside dia of plug [measured] = small bore dia + large bore dia + the septum width			\Box	
46 47	septum length exp [Need for logic 0 only] septum length calc - do not imput value	0 42	0 42	0 42	dist. from very bottom of boot to septum [point between the large and small bore] dist. From very bottom of boot to spetum [bjl - bootl]	do not imput v	aluo	\vdash	
48	septum length calc - do not imput value	42	42	42	if bj logic = 0 => septum = septum exp; if bj logic = 1 => septum = septum calc	do not imput v			
49 50	sbore dia sep* [Needed for both boot logics]	18.5	18.5	18.5	septum small bore dia [assume = Ibore dia sep]			\vdash	
	lbore dia sep* [Needed for both boot logics]	19 0	19 0	19 0	septum large bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0]			\blacksquare	
53	sep width exp [Need for logic 0 only] sep width calc - do not imput value	3.4	3.4	3.4	septum width; direct measurement if remove plug septum width; calc. => extreme bore - sbore - lbore	do not imput v			
54 55	sep width - do not imput value	3.4	3.4	3.4	if bj logic = 0 => sep width = sep width exp; if bj logic = 1 => sep width = sep width calc	do not imput v	alue		-
	bj g	327 137	327 137	327	dist from top of boot (socket) to where G hole enters bore [not at cent of tone hole]			\dashv	
58	bj f1	137	13/	137	dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole]				
59 60								$\overline{}$	-
61 62								H	
63	IV. Tone Hole Diameters								
64 65	f2 e	4.6 5.8	4.6 5.7	4.5 5.7					-
66 67	d	5.2	5.1	5.2				H	
68 69	С	6.8	6.8	6.8	Pezé3 verified; Boot tone holes different from Pezé1				
70	b a	7.3 5.8	7.3 5.8	7.3 5.8				\Box	
71 72	9	8.9	8.9	8.9				H	
73	1.2	9.2	9.2	9.2				二	
74 75	e1 d1	14.8 8.8	14.8 8.8		e1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater] d1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater]			H	-
76	c1	14.8	14.8	14.8	Pezé3 vrfd oval, 14.4 x 15.2; c1 tone hole dia, on long joint [need to average NS and EW dias, NS	usually greate	r]	H	
77 78									
79 80								\sqcap	\dashv
81	V. Tone Hole Depths							H	
83	f2	34.3	28	31				口	
84 85	e d	27.8 26	27.8 27.5	31.2 31.3				\vdash	-
86 87		21.3	21.3	21.3		-		H	
88	b	24.5	24.5	24.5				〓	
90	a q	25.2 15.5	25.2 15.5	25.2 15.5	meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle]			\vdash	
91 92	f1	21.3	21.3	21.3	meas along east side tone hole wall [north wall, toward reed,t hole usually at angle]			H	
93	e1	8.5	8.5	8.5	e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest dist]			〓	
94 95	d1 c1	8.4	8 8.4	8.4	d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] c1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]			\dashv	
96 97								H	
98								〓	
99 100								H	-
101	VI. Long Joint	E04	E04	E04	Pezé3 a table along long joint			H	
103	lg_length lg_tenon_bot	584 48.3	584 48.3	584 48.3	total length of long joint length bottom tenon on long joint [tenon going into boot joint]			d	
104	li bot bore li top bore	23.7 32	23.7 32	23.7 32	long joint bottom tenon bore diameter [tenon going into boot joint] Pezé3 OOR 31.5 x 32.5; long joint top tenon bore diameter [tenon going into bell]			гŦ	
106	lg_tenon_top	37.3	37.3	37.3	length top tenon on long joint [tenon going into bell]			二	
108	e1 distance d1 distance	57 256	57 256	57 256	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore] dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]			ฮ	
109 110	c1 distance	473	473	473	dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]			H	
111									-

	A	В	С	D	E	F	G	н	ī
112			ŭ		i.	·	Ü		•
113									
114									
116	VII. Bore diameters at Tone Holes	12.2	11.6	11.7					
117	e	13.1	12.5	12.7					
118	d	13.5	13.2	13.3					
119									
120	c	16	16	16					
121 122	D	17.2 17.7	17.2 17.7	17.2 17.7					
123	q	19.7	19.7	19.7					
124	f1	21.6	21.6	21.6					
125		25.2	25.2	25.2					
126 127	e1 d1	25.3 28.1	25.3 28.1		e1 tone hole bore diameter on long joint d1 tone hole bore diameter on long joint				
128	c1	31	31		c1 tone hole bore diameter on long joint				
129									
130									
131 132								H	
133									
134	VIII. Bell				Pezé3 no tone hole in the bell				
135	bell logic	1	1	1	If bell logic = 0 => normal conical bore; if bell logic = 1 => inverted concial bore; if bell logic =	2 => bell expa	nsion		
136	bell_length (0, 1, 2)	325 31.6	325		total length of bell [lines 141 + 144 = line 136]				
137 138	bell_bot_bore (0, 1, 2) bell top bore 0, (1, 0, 2)	28.7	31.6 28.7		dia bore at the bottom of bell [end with socket] dia bore at the top of bell [where low Bb exits]				
139	bell_center_bore (only for logic 2)	20.7	20.7	20.7	dia bore at the top of bein [where low bb exits] dia bore at max center of expansion				
140	bell_wall (only for logic 2)				bell wall thickness, Just for David				
141	bell_bot_bore_expansion (only for logic 2)				dist of bottom to maxium of expansion [including bell socket length,if bell logic=0 =>100]				
142 143	Outside diameter of wood at expansion bell tenon (0, 1, 0, 2)	38.9	38.9		Just for David bell socket length				
143	bell_expansion_length (only for logic 2)	30.9	30.9	30.9	distance of maxium expansion to top of bell [where Bb exits]				
145	belflg	34.5	34.5	34.5	Usually about 10mm more than line 138				
146					Pezé3 Bell is OOR				
147	IX. PITCH								
	pitch	430	430	430	input the historical pitch of the bassoon, must input value, best guess				
	freq_init	380	380		Initial frequency range variable				
	Delta frequency	2	2	2	frequency increment parameter				
	Number of frequencies	60 1.05	1.05		number of frequencies to scan for min chi sq				
	Frequency adjust X. Title	1.05	1.05	1.05	frequency adjustment parameter				
155					Bassoon Calculation: Pezé3-O-Kampmann-Wg1-WOB-DNM				
156									
157					Notes on long joint; Pezé3 good, not very out of round				
158	XI. Bore Diameter Locations				Notes on boot joint bore: Pezé3 normal Notes on wing joint bore: Pezé3 normal				
160	AL DOLG DIGINGES ECCUCIONS	21	20	21	Number of diameters				
161	Bell Bore	10.8	10.3	10.1	Initial bore diameter [do not include in line 160 counting]				
162	31.6mm diameter at socket	0	0	0	dist1; measured from the bottom of the wing joint- 10mm				1
163 164	31mm rod 140mm from socket OOR 30mm rod 225mm from socket OOR	362 302	355 290		dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm			H	1
165	29mm rod 308 from socket	205	202		dist4; measured from the bottom of the wing joint- 12mm				1
166	28.7mm diameter at bell end	117	0	75	Pezé3 OOR 95 x 140; dist5; measured from the bottom of the wing joint- 14mm				1
167		60	60		dist6; measured from the top of the bootjoint - small bore side- 15mm	Bottom wing jt	15.5		2
168 169		96 145	96 145	96 145	dist7; measured from the top of the bootjoint - small bore side- 16mm Pezé3 OOR 135 x 155; dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot small top boot large	14.6 24.2		2
170		281	281	281	Pezé3 OOR 170 x 192; dist9; measured from the top of the bootjoint - small bore side- 17mm Pezé3 OOR 170 x 192; dist9; measured from the top of the bootjoint - small bore side- 18mm	top boot large	24.2		2
171		396	396	396	dist10; measured from the top of the bootjoint - large bore side- 19mm	sbore dia sep	18.5		3
172		350	350		dist11; measured from the top of the bootjoint - large bore side- 20mm	Ibore dia sep	19		3
173 174		245 120	245 120	245 120	Pezé3 OOR 230 x 260; dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm verified	Hook Length	396		3
175		72	72		dist14; measured from the top of the bootjoint - large bore side- 22mm verified dist14; measured from the top of the bootjoint - large bore side- 23mm				3
176		555	555	555	dist15; measured from the top of the long joint- 24mm	lj bot bore	23.7		4
177		530	530	530	dist16; measured from the top of the long joint- 25mm; verified				4
178 179		492	492 392		dist17; measured from the top of the long joint- 26mm				4
180		392 330	392	392 330	dist18; measured from the top of the long joint- 27mm Pezé3 OOR 305 x 355; dist19; measured from the top of the long joint- 28mm				4
181		265	265	265	Pezé3 OOR 245 x 285; dist20; measured from the top of the long joint- 29mm				4
182		200	200	200	dist21; measured from the top of the long joint- 30mm				4
183		100	100		dist22; measured from the top of the long joint- 31mm verified	N. Acc. 1	2-	\vdash	4
184		0	0	0	dist23; measured from the top of the long joint- 32mm	lj top bore	32		4