CuvillierAînè1-O-BrusMIM4352-Wg1-WOB-DNM

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1 1 1 1 1 1 1 1 1 1								
1.3 I. Wing Joint Lengths 1.3 I. Wing Joint Lengths 2. S. Soos: 1. Store diamoger of choice: logo 0. either items for any joint, logo 0, either items for any joint items for any joint at fine center of the tone held 0, either items for any joint and items for any joint at fine center of the tone held 1, either items for any joint and items for any joint at fine center of the tone held 1, either items for any joint and items for any joint any		ocal logic	2	if bocal logic = $0 \Rightarrow$ bocal is choke; if bocal logic = $1 \Rightarrow$ choke in wing joint calc; if bocal	l logic = 2 =>	no bo	cal	
1 1 1 1 1 1 1 1 1 1								
1.								
December								
Section Sect		T Wing Joint Longths		hacal receiver: CuvilliarAînát no just a clight chalf where metal hacal receiver stans				
13. Secure length (1, 0) (ferminy closic length) 500 14. Into post length of mode from spot wing part; spec 0; length of receiver (cellme as strong single) 14. Into post length of the special parts			8.5		re at hottom	or recei	ver	
12 March (1998) 1.50 1						JI I CCCI	V CI	
10 10 10 10 10 10 10 10					· · · · · · · · · · · · · · · · · · ·			
13 12 223 dist from top of ways to where tone hole enters have [not at the center of the toes hole]								
20 10 239	18							
2 1 1 2 2 2 2 2 2 2				dist from top of wing to where tone hole enters bore [not at the center of the tone hole]				
2 Servicida Bottom of wing joint								
23 Sec dis. Section of aring point 1.4:0		ıj d	339					
2 Serie dia. top of boot joint amail esde 16.7		lare dia Pottom of wing joint	14.0	Need to Average week conflicted in a				
1 Bord Lengthe				Need to Average, usally ovar, CuvillierAmer no				
20 1 1 1 1 1 1 1 1 1								
27 III. Boot Lengths		and and top or book joint large state						
Section Sect		II. Boot Lengths					_	
30 bit 10 133 133 133 133 133 133 133 134 13	28 bj	j logic						
13 15 13 15 15 15 15 15				dist from top of boot to where topmost tone hole enter bore [not at center of tone hole]				
3 Sistotal Reeded for both boot logics 431 Itotal length of body, include socket, along the small bore side								
33 bitotal Needed for both boot logics 431 1 1 1 1 1 1 1 1 1		j a	199	Cuvillian Aîn át true hele heet heet gretem				
34 Diritated Needed for book togics 431 total length of book, include socket, along large bore side		istotal [Needed for both boot logics]	//21					
35 plus small Reed for logic 0 only								
36 Diput Briege Reed for logic 0 only 0 Diug thickness, small bore side								
38 boots [Needed for both boot logics] 388 hook length along s bore => bis-septum length = boot - septum <= calc the septum								$\overline{}$
38 hook length along bore => pji-septum length = boot - septum < calc the septum < 10	37							
14 boots bottom Needed for both boot logics 19 use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of stick] 12.0 + 7 = 19 use hook, dist of bore [same as boots bot except tenon depth will be different] 13 use hook, dist of bore [same as boots bot except tenon depth will be different] 14 use hook, dist of bore [same as boots bot except tenon depth will be different] 15 use hook, dist of bore [same as boots bot except tenon depth will be different] 15 use hook dist of plug [measured] = small bore dis a hirry bore distance 15 use hook di	38 b	oots [Needed for both boot logics]						
11 boots bottom [Needed for both boot logics] 19 use hook, dist of bore (dist on stick plus 7mm, diff between hook and bot of stick] 12.0 ±7=19 14.2 boots bottom [Needed for hoot boot logics] 19 use hook, dist of bore (asme as boots bot except tean or but be different] 14.8 14.8 Outside dia of plug [measured] = small bore dia + large bore dia + the septum width; 15.2 Septum length cells - do not imput value 16.3 Septum length cells - do not imput value 17.4 Septum length cells - do not imput value 18.5 Septum length cells - do not imput value 18.6 Septum length cells - do not imput value 18.7 Septum length cells - do not imput value 18.8 Septum length cells - do not imput value 18.9 Septum length cells - do not imput value 18.0 Septum length cells - do not imput value 18.1 Septum length cells - do not imput value 18.1 Septum length cells - do not imput value 18.2 Septum length cells - do not imput value 18.3 Septim length cells - do not imput value 18.4 Septum small bore dia assume = bore dia sep] 18.5 Septim length cells - do not imput value 18.5 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.7 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim length cells - do not imput value 18.6 Septim len		ootl [Needed for both boot logics]	388	hook length along I bore => bjl-septum length = boot - septum <= calc the septum				
12 Doot bottom Needed for both boot logics 19 use hook, dist of bore Same as boots bot except tenon depth will be different 13		b [NI	10	use book diet of hore [diet on stick plus 7mm diff between book and bet of stick] 12.0	7- 10			
44 extreme bore Needed for logic 1 only 41.8 Outside dia of plug Imeasured = small bore dia + large bore dia + the septum width; 41.8 Septum length exp Need for logic 0 only 0 dist. from very bottom of boot to septum [point between the large and small bore do not imput value 43 dist. from very bottom of boot to septum [point between the large and small bore do not imput value 43 dist. from very bottom of boot to septum [point between the large and small bore do not imput value do					7- 19			
### Septum Hength copic (Need for logic 1 only)		ooti bottom [Needed for both boot logics]	17	ase floor, dist of bore [sume as boots but except terior depart will be different]				
46 Septum length ace - do not imput value 43 dist. from very bottom of boot to septum [pin between the large and small bore] 43 septum length - do not imput value 43 dist. from very bottom of boot to septum [pin between the large and small bore] 46 do not imput value 48 dist. from very bottom of boot to septum [pin between the large and small bore] 49 do not imput value 43 dist. from very bottom of boot to septum [pin between the large and small bore] do not imput value 49 do not imput value 40 do not imput value 4		xtreme bore [Needed for logic 1 only]	41.8	Outside dia of plug [measured] = small bore dia + large bore dia + the septum width;				
### Septum length calc - do not imput value 43 dist. From very bottom of boot to spetum [b] - boot] do not imput value 48 septum length - do not imput value 49 dist. Septum small bore dia sep* [Needed for both boot logics] 18.4 septum small bore dia sep* [Needed for both boot logics] 19.4 septum small bore dia [assume = blore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = blore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = blore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.4 septum small bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0] 19.5 19.	45							
48 septum length - do not imput value 43 fb logic = 0 => septum esptum exp; if b logic = 1 => septum esptum calc								
30								
So shore dia sept Needed for both boot logics 19.4 septum small bore dia [assume = bore dia sep]		eptum length - do not imput value	43	ir bj logic = 0 => septum = septum exp; ir bj logic = 1 => septum = septum caic	do not imput	value		
19.1 Islance dia sep* (Needed for both boot logics) 19.4 Septum large bore dia [assume = sbore dia sep] (Imsure if rork can be removed; for Logic 0) 19.5		hore dia sen* [Needed for both boot logics]	18.4	sentum small hore dia [assume = lhore dia sen]				
52 sep width exp [Need for logic 0 only]					ic 01			
Sep width - do not imput value 4					,,,,,,			
S5 S S S S S S S S S	53 se	ep width calc - do not imput value	4	septum width; calc. => extreme bore - sbore - Ibore	do not imput	value		
156 big g 337 dist from top of boot (socket) to where G hole enters bore [not at cent of tone hole] 57 big 143 dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole] 58 58 59 59 59 50 50 50 50 50		ep width - do not imput value	4	if bj logic = 0 => sep width = sep width exp; if bj logic = 1 => sep width = sep width ca	do not imput	value		
143 dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole]								
S8	56 bj	<u>] </u>						
Section Sect] T1	143	dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole]				
Solution								
61								$\overline{}$
63 IV. Tone Hole Diameters								
64 f2 5.8	62							
6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.3 6.3 6.3 6.3 6.5								
66 d		2						
Fig. 2013 Fig. 3								
68 c 7.8 69 b 6.7 6.7 6.7 6.7 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3			0.3					
6.7			7.8					
70 a 6.3 9.9	69 b	ı						
72 f1	70 a		6.3					
73	71 g							
74 e1	72 f1	1	9.7					
75 d1	74 6	.1	12.2	e1 tone hole dia on long joint [need to average NC and EW dias. NC usually assets?]				
Total	75 d	1						
CuvillierAîné1 three long joint tone holes all round, not oblong								
78	77							
80	78							
S1								
82 V. Tone Hole Depths Signal Signal <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
83 f2 38.5 CuvillierAîné1 F tone holes drilled at very extreme angle 84 le 30.7 85 d 38.8 CuvillierAîné1 D tone holes drilled at fairly extreme angle; verified 86 le 86 le 25 le 88 le 88 b 26.4 le 89 le 89 le 28.5 CuvillierAîné1 A tone holes drilled at fairly extreme angle		/ Tong Hole Denths						
84 e 30.7 85 d 38.8 CuvillierAîné1 D tone holes drilled at fairly extreme angle; verified 86 s 87 c 25 88 b 26.4 89 a 28.5 CuvillierAîné1 A tone holes drilled at fairly extreme angle			38 5	CuvillierAîné1 E tone holes drilled at very extreme angle				
85 d 38.8 CuvillierAîné1 D tone holes drilled at fairly extreme angle; verified 86 5 87 c 25 88 b 26.4 89 a 28.5 CuvillierAîné1 A tone holes drilled at fairly extreme angle	84 e	-		Curinicizance i tone noies united at very extreme drigie				
86 25 87 c 25 88 b 26.4 89 a 28.5 CuvillierAîné1 A tone holes drilled at fairly extreme angle	85 d			CuvillierAîné1 D tone holes drilled at fairly extreme angle; verified				
88 b 26.4 89 a 28.5 CuvillierAîné1 A tone holes drilled at fairly extreme angle	86							
89 a 28.5 CuvillierAîné1 A tone holes drilled at fairly extreme angle								
				Conditional of a source before deliberty (C.)				
20 g 13.3	89 a							
	٥0 -							
92 19 19 19 19 19 19 19 19 19 19 19 19 19		1	19					
93 e1 8.5 e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest dist]	91 f1	1	19					

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_			C	D	F	- 1	G
94	d1	8.1	d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]	D D			G
	c1	7.3	c1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] y				
96	-		, , , , , , , , , , , , , , , , , , , ,				
97							
98							
99							
100							
	VI. Long Joint	F0F	CuvillierAîné1 a table along long joint		\longrightarrow	-	
	lg_length lg_tenon_bot	585 45.8	total length of long joint				
	lj_bot_bore	23.8	length bottom tenon on long joint [tenon going into boot joint] long joint bottom tenon bore diameter [tenon going into boot joint]		-		
	lj_top_bore	31.5	long joint top tenon bore diameter [tenon going into bell]				
	lg_tenon_top	35	length top tenon on long joint [tenon going into bell]				
	e1 distance	54	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore]				
	d1 distance	255	dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]				
	c1 distance	469	dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]				
110							
111							
112							
113 114					$\overline{}$	-	
	VII. Bore diameters at Tone Holes						
116	f2	11.3					
117	e	12.6			-	_	
118	d	13.3					
119							
120	c	16.5				-T	
121	b	16.6					
122	a	16.7		 			
123 124	g f1	20.6 21.2		 		-	
125	T1	21.2					
	e1	24.7	e1 tone hole bore diameter on long joint	 	\rightarrow	\dashv	
127		28.1	d1 tone hole bore diameter on long joint		\rightarrow	-	
128		31.1	c1 tone hole bore diameter on long joint	1			
129							
130							
131							
132							
133	VIII B. II		0 10 40 40 10 10 10				
	VIII. Bell	- 1	CuvillierAîné1 no bell tone hole		la a II a		:
	bell logic bell_length (0, 1, 2)	1 325	If bell_logic = $0 \Rightarrow$ normal conical bore; if bell_logic = $1 \Rightarrow$ inverted concial bore; if bell total length of bell [lines $141 + 144 =$ line 136]	_	> bell e	xpans	ion
	bell_bot_bore (0, 1, 2)	30.9	CuvillierAîné1 OOR 30.7 x 31.2; dia bore at the bottom of bell [end with socket]				
	bell_top_bore 0, (1, 0, 2)	30.6	dia bore at the top of bell [where low Bb exits]				
139	bell_center_bore (only for logic 2)		dia bore at max center of expansion	1			
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	0]			
142	Outside diameter of wood at expansion		Just for David				
143	bell_tenon (0, 1, 0, 2)	35.2	bell socket length				
	bell_expansion_length (only for logic 2)	20.5	distance of maxium expansion to top of bell [where Bb exits]				
145	Bellflg	39.5		 	\rightarrow	-+	
146					\rightarrow	+	
	IX. PITCH				-		
	pitch	430	input the historical pitch of the bassoon, must input value, best guess				
150	freq_init	380	Initial frequency range variable			†	
151	Delta frequency	2	frequency increment parameter				
	Number of frequencies	60	number of frequencies to scan for min chi sq				
	Frequency adjust	1.05	frequency adjustment parameter				
	X. Title						
155			Decree Calculation, On William Marks O. D. Anniagonia and Control				
156	title		Bassoon Calculation: CuvillierAîné1-O-BrusMIM4352-Wg1-WOB-DNM				
157	title		No date found;				
157	title		No date found; Notes on long joint bore: CuvillierAîné1 very OOR				
157 158	XI. Bore Diameter Locations		No date found;				
157 158 159 160	XI. Bore Diameter Locations	17	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round				
157 158 159 160 161	XI. Bore Diameter Locations Bell Bore	8.5	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter				
157 158 159 160 161 162	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket	8.5 383	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint-10mm				1
157 158 159 160 161 162 163	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket	8.5 383 326	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint-10mm dist2; measured from the bottom of the wing joint-11mm				1 1
157 158 159 160 161 162 163 164	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket	8.5 383 326 252	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm				1 1 1
157 158 159 160 161 162 163 164 165	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint-10mm dist2; measured from the bottom of the wing joint-11mm dist3; measured from the bottom of the wing joint-12mm dist4; measured from the bottom of the wing joint-13mm				1 1 1 1
157 158 159 160 161 162 163 164 165 166	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket	8.5 383 326 252 187 52	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 14mm	Bottom wine	14.0		1
157 158 159 160 161 162 163 164 165 166 167	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 14mm dist5; measured from the bottom of the wing joint- 15mm	Bottom wing	14.9		1 1
157 158 159 160 161 162 163 164 165 166 167	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 14mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot sma	16.7		1
157 158 159 160 161 162 163 164 165 166 167	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist7; measured from the bottom of the wing joint- 15mm dist7; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot sma	16.7		1 1 2
157 158 159 160 161 162 163 164 165 166 167 168 169 170	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 14mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot sma	16.7		1 1 2 2
157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 14mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - small bore side- 18mm dist11; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm	top boot sma top boot larg sbore dia ser Ibore dia sep	16.7 21.4 18.4 19.4		1 2 2 2 2 2 3
157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 322	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint-10mm dist2; measured from the bottom of the wing joint-11mm dist3; measured from the bottom of the wing joint-12mm dist4; measured from the bottom of the wing joint-13mm dist5; measured from the bottom of the wing joint-13mm dist5; measured from the bottom of the wing joint-15mm dist6; measured from the bottom of the wing joint-15mm dist6; measured from the bottom of the wing joint-15mm dist6; measured from the top of the bootjoint - small bore side-16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side-18mm dist10; measured from the top of the bootjoint - small bore side-19mm dist11; measured from the top of the bootjoint - large bore side-20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side-	top boot sma top boot larg sbore dia ser Ibore dia sep	16.7 21.4 18.4		1 1 2 2 2 2 2 3 3
157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 322 0	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 14mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side- 22mm	top boot sma top boot larg sbore dia ser Ibore dia sep	16.7 21.4 18.4 19.4		1 2 2 2 2 2 3
157 158 159 160 161 162 163 164 165 166 167 168 170 171 172 173 174 175	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 322 0	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side- 22mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 2 2 2 2 2 3 3 3
157 158 159 160 161 162 163 164 165 166 167 168 170 171 171 172 173 174 175 176	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 322 0 0 537	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side- 22mm dist13; measured from the top of the bootjoint - large bore side- 23mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint - 24mm	top boot sma top boot larg sbore dia ser Ibore dia sep	16.7 21.4 18.4 19.4		1 1 2 2 2 2 3 3 3 3 4
157 158 159 160 161 162 163 164 165 166 167 170 171 172 173 174 175 176 177	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 322 0 0 537 490	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 13mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 19mm dist10; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side- 22mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the bootjoint - 24mm dist16; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 24mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 1 2 2 2 2 2 3 3 3 3 4
157 158 159 160 161 162 163 164 165 166 167 188 199 170 171 172 173 174 175 176 177 177	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 322 0 0 537 490 430	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 11mm dist4; measured from the bottom of the wing joint- 13mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist7; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 19mm dist10; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side- 23mm dist13; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint - 24mm dist16; measured from the top of the long joint - 25mm CuvillierAîné1 OOR; dist17 measured from the top of the long joint- 25mm CuvillierAîné1 OOR; dist17 measured from the top of the long joint- 26mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 1 2 2 2 2 2 3 3 3 3 4 4 4
157 158 159 160 161 162 163 164 165 166 167 188 199 170 171 172 173 174 175 176 177 178 177 178	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 322 0 0 0 537 490 490	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint-10mm dist2; measured from the bottom of the wing joint-11mm dist3; measured from the bottom of the wing joint-12mm dist4; measured from the bottom of the wing joint-13mm dist5; measured from the bottom of the wing joint-13mm dist5; measured from the bottom of the wing joint-15mm dist6; measured from the bottom of the wing joint-15mm dist6; measured from the top of the bootjoint - small bore side-16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side-18mm dist19; measured from the top of the bootjoint - small bore side-19mm dist11; measured from the top of the bootjoint - large bore side-20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side-22mm dist14; measured from the top of the bootjoint - large bore side-23mm dist14; measured from the top of the bootjoint - large bore side-23mm dist15; measured from the top of the long joint - 24mm dist15; measured from the top of the long joint-25mm CuvillierAîné1 OOR, dist17 measured from the top of the long joint-27mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 1 2 2 2 2 2 3 3 3 3 4 4 4
157 158 159 160 161 162 163 164 165 166 167 170 171 172 173 174 175 176 177 178 179 180	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 0 0 537 490 430 465 307	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist3; measured from the bottom of the wing joint- 13mm dist3; measured from the bottom of the wing joint- 13mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 19mm dist10; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint - 24mm dist16; measured from the top of the long joint - 24mm dist16; measured from the top of the long joint- 25mm CuvillierAîné1 OOR dist17; measured from the top of the long joint- 26mm CuvillierAîné1 OOR dist19; measured from the top of the long joint- 27mm CuvillierAîné1 OOR dist19; measured from the top of the long joint- 28mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4
157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 0 380 322 0 0 430 465 307	No date found; Notes on long joint bore: CuvillierAiné1 very OOR Notes on boot joint bore: CuvillierAiné1 small side very out of round Notes on wing joint bore: CuvillierAiné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 13mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist7; measured from the top of the bootjoint - small bore side- 16mm CuvillierAiné1 OOR dist8; measured from the top of the bootjoint - small bore side- 17m dist9; measured from the top of the bootjoint - small bore side- 19mm dist10; measured from the top of the bootjoint - large bore side- 20mm CuvillierAiné1 very OOR dist12; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint- 24mm dist16; measured from the top of the long joint- 25mm CuvillierAiné1 OOR; dist17 measured from the top of the long joint- 27mm CuvillierAiné1 OOR dist18; measured from the top of the long joint- 27mm CuvillierAiné1 OOR dist19; measured from the top of the long joint- 28mm CuvillierAiné1 OOR dist20; measured from the top of the long joint- 28mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4 4
157 158 159 160 161 162 163 164 165 166 167 170 171 172 173 174 175 176 177 178 179 180	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 380 0 0 537 490 430 465 307	No date found; Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm dist3; measured from the bottom of the wing joint- 13mm dist3; measured from the bottom of the wing joint- 13mm dist4; measured from the bottom of the wing joint- 13mm dist5; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the bottom of the wing joint- 15mm dist6; measured from the top of the bootjoint - small bore side- 16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side- 19mm dist10; measured from the top of the bootjoint - small bore side- 19mm dist11; measured from the top of the bootjoint - large bore side- 20mm dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the long joint - 24mm dist16; measured from the top of the long joint - 24mm dist16; measured from the top of the long joint- 25mm CuvillierAîné1 OOR dist17; measured from the top of the long joint- 26mm CuvillierAîné1 OOR dist19; measured from the top of the long joint- 27mm CuvillierAîné1 OOR dist19; measured from the top of the long joint- 28mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4
157 158 159 160 161 162 163 164 165 166 167 168 170 171 171 172 173 174 175 176 177 178 179 180 181	XI. Bore Diameter Locations Bell Bore 30.9mm dia. at socket 30mm rod 170mm from socket 29mm rod 240mm from socket 30mm rod 35mm from top of bell OOR	8.5 383 326 252 187 52 0 0 265 337 0 0 322 0 0 0 537 490 430 445 307 237	Notes on long joint bore: CuvillierAîné1 very OOR Notes on boot joint bore: CuvillierAîné1 small side very out of round Notes on wing joint bore: CuvillierAîné1 normal Number of diameters Initial bore diameter dist1; measured from the bottom of the wing joint-10mm dist2; measured from the bottom of the wing joint-11mm dist3; measured from the bottom of the wing joint-12mm dist3; measured from the bottom of the wing joint-13mm dist4; measured from the bottom of the wing joint-13mm dist5; measured from the bottom of the wing joint-15mm dist6; measured from the bottom of the wing joint-15mm dist6; measured from the bottom of the wing joint-15mm dist6; measured from the top of the bootjoint - small bore side-16mm CuvillierAîné1 OOR dist8; measured from the top of the bootjoint - small bore side-18mm dist10; measured from the top of the bootjoint - small bore side-19mm dist11; measured from the top of the bootjoint - large bore side-20mm CuvillierAîné1 very OOR dist12; measured from the top of the bootjoint - large bore side-22mm dist14; measured from the top of the bootjoint - large bore side-23mm dist15; measured from the top of the long joint - 24mm dist16; measured from the top of the long joint-25mm CuvillierAîné1 OOR, dist17 measured from the top of the long joint-27mm CuvillierAîné1 OOR dist18; measured from the top of the long joint-27mm CuvillierAîné1 OOR dist19; measured from the top of the long joint-28mm CuvillierAîné1 OOR dist21; measured from the top of the long joint-28mm CuvillierAîné1 OOR dist21; measured from the top of the long joint-29mm CuvillierAîné1 OOR dist21; measured from the top of the long joint-30mm	top boot sma top boot larg sbore dia seg Ibore dia sep Hook Length	16.7 21.4 18.4 19.4 388		1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4 4 4 4