

4-key fagottino, Tuerlinckx (1), Mechelen, ca. 1795

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths	Min.	Max.	
Standing length to bell	644.5		
Standing length to wing joint	466.5		
Wing joint length	271		
Wing joint - tenon length	27.6		
Butt joint length	222		
Long joint length	304.5		
Long joint - south tenon length	27.1		
Long joint - north tenon length	26.5		
Bell length	169.5		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	114.5		
Wing - tone hole 2 distance from north	143		
Wing - tone hole 3 distance from north	172.5		
Butt - tone hole 4 distance from north	55		
Butt - tone hole 5 distance from north	80		
Butt - tone hole 6 distance from north	105		
Butt - tone hole F distance from north	191.5		
Butt - tone hole E distance from north	75		
Butt - tone hole Ab distance from north	177.5		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	265.5		
Long joint - tone hole Eb distance from north	x		

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Long joint - tone hole C distance from north	165		
Long joint - tone hole Bb distance from north	41		
Wing - major axis at tone hole 1	36.1		
Wing - major axis at tone hole 2	36.2		
Wing - major axis at tone hole 3	35.8		
Butt - major axis (side to side) at tone hole 4	46.2		
Butt - minor axis (front to back) at tone hole 4	32.3		
Butt - major axis (side to side) at tone hole 5	45.2		
Butt - minor axis (front to back) at tone hole 5	31.8		
Butt - major axis (side to side) at tone hole 6	44.3		
Butt - minor axis (front to back) at tone hole 6	31.8		
Butt - major axis (side to side) at tone hole F	43.2		
Butt - minor axis (front to back) at tone hole F	30.2		
Butt - major axis (side to side) at tone hole E	45.4		
Butt - minor axis (front to back) at tone hole E	31.7		
Butt - major axis (side to side) of the bottom butt ellipse	44.3		
Butt - minor axis (front to back) of the bottom butt ellipse	30.5		
Butt - major axis (side to side) of the top butt ellipse	46.4		Measurements without ferrule
Butt - minor axis (front to back) of the top butt ellipse	30.6		Ferrule = 1 to 1.5
Butt - cork major axis (side to side)	35		Only 1 cork
Butt - cork minor axis (front to back)	15.6		
Long joint - minor axis (front to back) at tone hole D	28.1		
Long joint - major axis (side to side) at tone hole D	25.8		

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Long joint - minor axis (front to back) at tone hole Eb	x		
Long joint - major axis (side to side) at tone hole Eb	x		
Long joint - minor axis (front to back) at tone hole C	30.1		
Long joint - major axis (side to side) at tone hole C	28.7		
Long joint - minor axis (front to back) at tone hole Bb	32.6		
Long joint - major axis (side to side) at tone hole Bb	31.6		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	N° 28.5		
Wing - tone hole 2 angle	S° 11		
Wing - tone hole 3 angle	S° 21		
Wing - tone hole 1 approx. Ø	3.9		
Wing - tone hole 2 approx. Ø	3.7		
Wing - tone hole 3 approx. Ø	3.5		
Wing - tone hole 1 approx. length	13.6		
Wing - tone hole 2 approx. length	10.7		
Wing - tone hole 3 approx. length	10.9		
Butt - tone hole 4 angle	N° 31		
Butt - tone hole 5 angle	S° 13		
Butt - tone hole 6 angle	S° 20		
Butt - tone hole E angle	S° 6		
Butt - tone hole 4 approx. Ø	5.5		
Butt - tone hole 5 approx. Ø	5.8		
Butt - tone hole 6 approx. Ø	4.6		

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Butt - tone hole E approx. Ø	8.8		
Butt - tone hole 4 approx. length	12		
Butt - tone hole 5 approx. length	10.5		
Butt - tone hole 6 approx. length	10.5		
Butt - tone hole E approx. length	9.5		
Long joint - tone hole C angle	0		
Long joint - tone hole C Ø	9.7	10.5	
Long joint - tone hole C approx. length	7.6		
BASIC - INSIDE			
Inner bore length			
Bore length	1121.7		
Wing bore length	272.5		
Butt - small bore length	214.5		
Butt - big bore length	215		
Butt - small bore socket length	27.7		
Butt - big bore socket length	27.3		
Butt - small bore beginning of septum	199.5		
Butt - big bore beginning of septum	198.5		
Long joint length	306.5		
Bell length	171		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	8.6	8.9	
Wing bore Ø south	12.2	12.5	
Bocal well length	22.3		Not possible. Measurement is distance of bocal entrance into bore.

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Butt - small bore Ø north	13.6		
Butt - big bore Ø north	17.8		
Long joint Ø north	20	20.2	
Long joint Ø south	17	17.3	
Bell bore Ø north	19.9	22.3	
Bell bore Ø south	23		
Bell socket length	27.3		
Bocal Ø at the beginning	3	3.6	
Bocal thickness at the beginning	0.2	0.5	
Bocal Ø at the tenon	6.8	7.5	
Bocal thickness at the tenon	0.3	0.5	
Bocal length (along top)	178		Hole at 34.3 from tenon
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	4.3	4.5	
Bocal well ferrule thickness	1		
Wing - tenon thickness	1.9	2.8	
Wing - tenon northern extern. Ø	17.5	18.2	
Wing - tenon southern extern. Ø	17	17.3	
Wing - tone hole A distance from north	x		
Wing - tone hole A angle	x		
Wing - tone hole A approx. Ø	x		
Wing - tone hole A approx. length	x		
Wing - tone hole C distance from north	x		
Wing - tone hole C angle	x		
Wing - tone hole C approx. Ø	x		
Wing - tone hole C approx. length	x		

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Butt - big socket thickness with ferrule	1	2.4	Min. without / max. with ferrule
Butt - small socket thickness with ferrule	1.4	2.5	Min. without / max.w with ferrule
Butt - top ferrule thickness	0.9	1.2	
Minimum wall thickness between butt sockets	1.5		
Butt - wood space between corks - bottom	x		1 cork
Butt - big bore cork Ø - bottom	14.8		
Butt - small bore cork Ø - bottom	14.8		
Butt - wood wall between cork/front - small bore	5.6		
Butt - wood wall between cork/front - big bore	5.3		
Butt - wood wall between cork/back - small bore	6.4		
Butt - wood wall between cork/back - big bore	7.3		
Wood wall between cork/side - small bore	3.2		
Wood wall between cork/side - big bore	3.7		
Butt - bottom ferrule thickness	0.8		
Long joint - south tenon thickness	1.4	1.6	
Long joint - south tenon northern extern. Ø	20.7	21	
Long joint - south tenon southern extern. Ø	20.5	21.2	
Long joint - north tenon thickness	1.9	2.5	
Long joint - north tenon northern extern. Ø	25	25.1	
Long joint - north tenon southern extern. Ø	25.7	26	
Bell socket thickness with brass	2.6	3.2	Without ferrule 1.7–2
Brass thickness of the bell ferrule	0.8	1	
Bell ferrule height	13.9		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	0		
Butt - tone hole F angle	N° 2		

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Butt - tone hole F# angle	x		
Butt - tone hole Ab approx. Ø	3		
Butt - tone hole F approx. Ø	6.3		
Butt - tone hole F# approx. Ø	x		
Butt - tone hole Ab approx. length	7.2		
Butt - tone hole F approx. length	8		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	0		
Long joint - tone hole E \flat angle	x		
Long joint - tone hole B \flat angle	0		
Long joint - tone hole D approx. Ø	9.5	10	
Long joint - tone hole E \flat approx. Ø	x		
Long joint - tone hole B \flat approx.Ø	9.5	10.1	
Long joint - tone hole D approx. length	6.8		
Long joint - tone hole E \flat approx. length	x		
Long joint - tone hole B \flat approx. length	7.6		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	163		
Wing - tone hole 2 distance from south	123		
Wing - tone hole 3 distance from south	93		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	47		
Butt - tone hole 5 distance from north	85		
Butt - tone hole 6 distance from north	113		
Butt - tone hole Ab distance from north	179		

4-key fagottino, Tuerlinckx (1), Mechelen, ca. 1795

Butt - tone hole F distance from north	190		
Butt - tone hole F \sharp distance from north	x		
Butt - tone hole E distance from north	76		
Long joint - tone hole D distance from north	268		From south 39
Long joint- tone hole E \flat distance from north	x		x
Long joint - tone hole C distance from north	165		From south 139
Long joint - hole B \flat distance from north	41		From south 264
Bell - vent hole distance from north	x		