

7-key fagottino, Christophe DELUSSE, Paris, ca. 1785

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	626		
Standing length to wing joint	418.5		
Wing joint length	227.5		
Wing joint - tenon length	21		
Butt joint length	212		
Long joint length	288.5		
Long joint - south tenon length	18.1		
Long joint - north tenon length	26.6		
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	91		
Wing - tone hole 2 distance from north	120.5		
Wing - tone hole 3 distance from north	148.5		
Butt - tone hole 4 distance from north	42.5		
Butt - tone hole 5 distance from north	66		
Butt - tone hole 6 distance from north	90		
Butt - tone hole F distance from north	178		
Butt - tone hole E distance from north	68		
Butt - tone hole Ab distance from north	157		
Butt - tone hole F# distance from north	138		
Long joint - tone hole D distance from north	262.5		
Long joint - tone hole Eb distance from north	230		
Long joint - tone hole C distance from north	161		
Long joint - tone hole Bb distance from north	39		
Wing - major axis at tone hole 1	37.1		

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Wing - major axis at tone hole 2	37.4		
Wing - major axis at tone hole 3	37.5		
Butt - major axis (side to side) at tone hole 4	51.2		
Butt - minor axis (front to back) at tone hole 4	36.5		
Butt - major axis (side to side) at tone hole 5	50.5		
Butt - minor axis (front to back) at tone hole 5	35.8		
Butt - major axis (side to side) at tone hole 6	49.8		
Butt - minor axis (front to back) at tone hole 6	35.7		
Butt - major axis (side to side) at tone hole F	45		
Butt - minor axis (front to back) at tone hole F	32		
Butt - major axis (side to side) at tone hole E	50.6		
Butt - minor axis (front to back) at tone hole E	36.2		
Butt - major axis (side to side) of the bottom butt ellipse	41		With ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	30.4		With ferrule
Butt - major axis (side to side) of the top butt ellipse	51.3		With ferrule
Butt - minor axis (front to back) of the top butt ellipse	38.2		With ferrule
Butt - cork major axis (side to side)	x		
Butt - cork minor axis (front to back)	x		
Long joint - minor axis (front to back) at tone hole D	27.2		
Long joint - major axis (side to side) at tone hole D	27.7		
Long joint - minor axis (front to back) at tone hole Eb	28.3		
Long joint - major axis (side to side) at tone hole Eb	28.2		
Long joint - minor axis (front to back) at tone hole C	29.7		Inset in hole 1 mm long
Long joint - major axis (side to side) at tone hole C	29.4		
Long joint - minor axis (front to back) at tone hole Bb	30.1		
Long joint - major axis (side to side) at tone hole Bb	31		

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Tone hole angle, Ø, length			
Wing - tone hole 1 angle	22.5° North		
Wing - tone hole 2 angle	6.5° South		
Wing - tone hole 3 angle	26.5° South		
Wing - tone hole 1 approx. Ø	4.4		
Wing - tone hole 2 approx. Ø	4.3		
Wing - tone hole 3 approx. Ø	4.3		
Wing - tone hole 1 approx. length	17.7		
Wing - tone hole 2 approx. length	17		
Wing - tone hole 3 approx. length	16.5		
Butt - tone hole 4 angle	23° North		
Butt - tone hole 5 angle	8.5° South		
Butt - tone hole 6 angle	26.5° South		
Butt - tone hole E angle	19.5° South		
Butt - tone hole 4 approx. Ø	5.7		
Butt - tone hole 5 approx. Ø	5		
Butt - tone hole 6 approx. Ø	4.6		
Butt - tone hole E approx. Ø	8.3		
Butt - tone hole 4 approx. length	16.1		
Butt - tone hole 5 approx. length	15		
Butt - tone hole 6 approx. length	14		
Butt - tone hole E approx. length	10.1		
Long joint - tone hole C angle	0°		
Long joint - tone hole C Ø	7.3		
Long joint - tone hole C approx. length	6.5		
BASIC - INSIDE			
Inner bore length			
Bore length	1050		
Wing bore length	227.5		

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Butt - small bore length	201.5		
Butt - big bore length	201.5		
Butt - small bore socket length	21.7		
Butt - big bore socket length	17.4		
Butt - small bore beginning of septum	187		
Butt - big bore beginning of septum	187		
Long joint bore length	289.5		
Bell bore length	170.5		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	7.2	7.3	
Wing bore Ø south	12.6	12.7	
Bocal well length	16.2	27	Not well-defined
Butt - small bore Ø north	14.6	15	
Butt - big bore Ø north	18.4	18.6	
Long joint Ø north	21.5	22	
Long joint Ø south	16.1		
Bell bore Ø north	22.3	22.6	
Bell bore Ø south	23	23.4	
Bell socket length	26.4		
Bocal Ø at the beginning	4		
Bocal thickness at the beginning	0.3		
Bocal Ø at the tenon	7.2	7.5	
Bocal thickness at the tenon	0.4		
Bocal length (along top)	153		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	4.7	5.7	Without ferrule: 3.9–4.9 mm
Bocal well ferrule thickness	0.4		
Wing - tenon thickness	2.2	2.5	
Wing - tenon northern extern. Ø	17.4	17.6	

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Wing - tenon southern extern. Ø	17.2	17.5	
Wing - tone hole A distance from north	33.5		
Wing - tone hole A angle	x		
Wing - tone hole A approx. Ø	2.7		
Wing - tone hole A approx. length	2.7		
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		
Butt - big socket thickness with ferrule	4.1		
Butt - small socket thickness with ferrule	3.5		
Butt - top ferrule thickness	0.5		
Minimum wall thickness between butt sockets	2.7		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	x		
Butt - small bore cork Ø - bottom	x		
Butt - wood wall between cork/front - small bore	x		
Butt - wood wall between cork/front - big bore	x		
Butt - wood wall between cork/back - small bore	x		
Butt - wood wall between cork/back - big bore	x		
Wood wall between cork/side - small bore	x		
Wood wall between cork/side - big bore	x		
Butt - bottom ferrule thickness	x		
Long joint - south tenon thickness	1.9	2.3	
Long joint - south tenon northern extern. Ø	20.5	20.7	
Long joint - south tenon southern extern. Ø	20.1	20.3	
Long joint - north tenon thickness	27.1	27.2	
Long joint - north tenon northern extern. Ø	26.1	26.5	
Long joint - north tenon southern extern. Ø	27.1	27.3	

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Bell socket thickness with brass	1.8	2.1	
Brass thickness of the bell ferrule	0.3		
Bell ferrule height	18.4		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F# angle	x		
Butt - tone hole Ab approx. Ø	4.2		
Butt - tone hole F approx. Ø	5.6		
Butt - tone hole F# approx. Ø	5.1		
Butt - tone hole Ab approx. length	x		
Butt - tone hole F approx. length	x		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	x		
Long joint - tone hole E \flat angle	x		
Long joint - tone hole B \flat angle	x		
Long joint - tone hole D approx. Ø	9.3		
Long joint - tone hole E \flat approx. Ø	5.1		
Long joint - tone hole B \flat approx.Ø	9.8		
Long joint - tone hole D approx. length	x		
Long joint - tone hole E \flat approx. length	x		
Long joint - tone hole B \flat approx. length	x		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	145		
Wing - tone hole 2 distance from south	105.5		
Wing - tone hole 3 distance from south	71.5		
Wing - tone hole A distance from south	195		
Wing - tone hole W2 distance from south	x		
Butt - tone hole 4 distance from north	35		

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Butt - tone hole 5 distance from north	66		
Butt - tone hole 6 distance from north	94		
Butt - tone hole Ab distance from north	154.5		
Butt - tone hole F distance from north	175		
Butt - tone hole F# distance from north	132		
Butt - tone hole E distance from north	69		
Long joint - tone hole D distance from north	261		
Long joint- tone hole E \flat distance from north	228		
Long joint - tone hole C distance from north	159		
Long joint - hole B \flat distance from north	38		
Bell - vent hole distance from north	x		