4-key fagottino, Anonymous 11, ca. 1750–90

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	666		
Standing length to wing joint	487		
Wing joint length	273.5		
Wing joint - tenon length	25.1		
Butt joint length	239		
Long joint length	306		
Long joint - south tenon length	22.5		
Long joint - north tenon length	31.8		
Bell length	173.5		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	119		
Wing - tone hole 2 distance from north	147.5		
Wing - tone hole 3 distance from north	175.5		
Butt - tone hole 4 distance from north	53		
Butt - tone hole 5 distance from north	82.5		
Butt - tone hole 6 distance from north	107		
Butt - tone hole F distance from north	197.5		
Butt - tone hole E distance from north	77.5		
Butt - tone hole Ab distance from north	186		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	270.5		
Long joint - tone hole Eb distance from north	x		
Long joint - tone hole C distance from north	169		
Long joint - tone hole Bb distance from north	50.5		
Wing - major axis at tone hole 1	36		

***4-key fagottino,* Anonymous 11, ca. 1750–90**			
Wing - major axis at tone hole 2	36.5		
Wing - major axis at tone hole 3	35.8		
Butt - major axis (side to side) at tone hole 4	49.3		
Butt - minor axis (front to back) at tone hole 4	36		
Butt - major axis (side to side) at tone hole 5	48.7		
Butt - minor axis (front to back) at tone hole 5	35		
Butt - major axis (side to side) at tone hole 6	48.1		
Butt - minor axis (front to back) at tone hole 6	34.5		
Butt - major axis (side to side) at tone hole F	45.8		
Butt - minor axis (front to back) at tone hole F	31		
Butt - major axis (side to side) at tone hole E	49		
Butt - minor axis (front to back) at tone hole E	35.1		
ellipse	44.5		Without ferrule, ferrule thickness 0.4
ellipse	29		Without ferrule, ferrule thickness 0.4
Butt - major axis (side to side) of the top butt ellipse	49.5		Without ferrule, ferrule thickness 0.8 – 1.2
Butt - minor axis (front to back) of the top butt ellipse	36		Without ferrule, ferrule thickness 0.8 – 1.2
Butt - cork major axis (side to side)	37.4		
Butt - cork minor axis (front to back)	16.6		
Long joint - minor axis (front to back) at tone hole D	26.8		
Long joint - major axis (side to side) at tone hole D	27.7		
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	29.5		
Long joint - major axis (side to side) at tone hole C	28.7		
Long joint - minor axis (front to back) at tone hole Bb	31.5		

4-key fagottino, Anonymous 11, ca. 1750–90

Long joint - major axis (side to side) at tone hole Bb	31.9		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	30.5˚ North		
Wing - tone hole 2 angle	36˚ South		
Wing - tone hole 3 angle	22.5˚ South		
Wing - tone hole 1 approx. Ø	2.7		
Wing - tone hole 2 approx. Ø	2.9		
Wing - tone hole 3 approx. Ø	3.1		
Wing - tone hole 1 approx. length	10		
Wing - tone hole 2 approx. length	9.8		
Wing - tone hole 3 approx. length	10		
Butt - tone hole 4 angle	18˚ North		
Butt - tone hole 5 angle	30˚ South		
Butt - tone hole 6 angle	26˚ South		
Butt - tone hole E angle	22.5˚ South		
Butt - tone hole 4 approx. Ø	5.25		
Butt - tone hole 5 approx. Ø	5.1		
Butt - tone hole 6 approx. Ø	4.4		
Butt - tone hole E approx. Ø	6.85		
Butt - tone hole 4 approx. length	13.9		
Butt - tone hole 5 approx. length	14.1		
Butt - tone hole 6 approx. length	13.5		
Butt - tone hole E approx. length	13		
Long joint - tone hole C angle	0˚		
Long joint - tone hole C Ø	8.6	8.8	
Long joint - tone hole C approx. length	5.5		
BASIC - INSIDE			
Inner bore length			

***4-key fagottino,* Anonymous 11, ca. 1750–90**			
Bore length	1169.45		Calculated using socket median
Wing bore length	275		
Butt - small bore length	240		
Butt - big bore length	239		
Butt - small bore socket length	25.3		
Butt - big bore socket length	23.6		
Butt - small bore beginning of septum	210		
Butt - big bore beginning of septum	209		
Long joint length	306		
Bell length	175		
Inner bore beginning Ø (not socket!)	**Min.**	**Max.**	
Wing bore Ø north	8.4	8.6	
Wing bore Ø south	12.5	13.4	
Bocal well length	17.5	20	
Butt - small bore Ø north	14.2	14.6	
Butt - big bore Ø north	17.6	18	Slightly oval
Long joint Ø north	22.3	22.7	
Long joint Ø south	17.4	17.5	
Bell bore Ø north	20.8	21	
Bell bore Ø south	22.6	22.8	
Bell socket length	31.5	31.8	
Bocal Ø at the beginning	x		
Bocal thickness at the beginning	x		
Bocal Ø at the tenon	x		
Bocal thickness at the tenon	x		
Bocal length (along top)	x		
COMPLETE - OUTSIDE	**Min.**	**Max.**	
Bocal well thickness with ferrule	x	6	Ferrule missing
Bocal well ferrule thickness	x	x	

***4-key fagottino,* Anonymous 11, ca. 1750–90**			
Wing - tenon thickness	2.4	2.6	
Wing - tenon northern extern. Ø	18	18.5	
Wing - tenon southern extern. Ø	17.7	18.3	
Wing - tone hole A distance from north	x		
Wing - tone hole A angle	x		
Wing - tone hole A extern. 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 extern. Ø	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	2.1		Without ferrule
Butt - small socket thickness with ferrule	2.6		Without ferrule
Butt - top ferrule thickness	0.8	1.2	
Minimum wall thickness between butt sockets	2.8		
Butt - wood space between corks - bottom	x		
Butt - big bore cork Ø - bottom	16		One cork
Butt - small bore cork Ø - bottom	16		One cork
Butt - wood wall between cork/front - small bore	5.5		Without ferrule, cork well not in line with external elipse (see photo)
Butt - wood wall between cork/front - big bore	4.3		Without ferrule
Butt - wood wall between cork/back - small bore	4.4		Without ferrule
Butt - wood wall between cork/back - big bore	6.8		Without ferrule
Wood wall between cork/side - small bore	3.1		Without ferrule
Wood wall between cork/side - big bore	3.7		Without ferrule
Butt - bottom ferrule thickness	0.5		
Long joint - south tenon thickness	1.4	1.7	
Long joint - south tenon northern extern. Ø	21.1	21.4	
Long joint - south tenon southern extern. Ø	20.6	20.8	

***4-key fagottino,* Anonymous 11, ca. 1750–90**			
Long joint - north tenon thickness	2.2	2.8	
Long joint - north tenon northern extern. Ø	27.2	27.8	
Long joint - north tenon southern extern. Ø	28.1	28.5	
Bell socket thickness with brass	1.3	1.6	Brass ferrule missing, measurement without ferrule, crack
Brass thickness of the bell ferrule	x		
Bell ferrule height	15		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	6.5˚ South		
Butt - tone hole F angle	7˚ North		
Butt - tone hole F♯ angle	x		
Butt - tone hole Ab approx. Ø	3.1		
Butt - tone hole F approx. Ø	6.65		
Butt - tone hole F♯ approx. Ø	x		
Butt - tone hole Ab approx. length	9		
Butt - tone hole F approx. length	12.6		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	0˚		
Long joint - tone hole E ♭ angle	0˚		
Long joint - tone hole B ♭ angle	0˚		
Long joint - tone hole D approx. Ø	8.1	8.6	
Long joint - tone hole E ♭ approx. Ø	x		
Long joint - tone hole B ♭ approx.Ø	7.2	7.6	
Long joint - tone hole D approx. length	5.2		
Long joint - tone hole E ♭ approx. length	x		
Long joint - tone hole B ♭ approx. length	6		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	160		
Wing - tone hole 2 distance from south	121.5		

***4-key fagottino,* Anonymous 11, ca. 1750–90**			
Wing - tone hole 3 distance from south	94		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	49		
Butt - tone hole 5 distance from north	90		
Butt - tone hole 6 distance from north	115		
Butt - tone hole Ab distance from north	186		
Butt - tone hole F distance from north	198		
Butt - tone hole F♯ distance from north	x		
Butt - tone hole E distance from north	82		
Long joint - tone hole D distance from north	271		
Long joint- tone hole E ♭ distance from north	x		
Long joint - tone hole C distance from north	168		
Long joint - hole B ♭ distance from north	50		
Bell - vent hole distance from north	x		
EXTRAS			
Wing minor axis at tone hole 1	26		
Wing minor axis at tone hole 2	26.2		
Wing minor axis at tone hole 3	26.5		