

13-key fagottino, Jean-Nicholas SAVARY JEUNE (2), Paris, 1827

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	645		
Standing length to wing joint	425		
Wing joint length	229		
Wing joint - tenon length	26		
Butt joint length	222	224	Big bore starts ca. 2.6 mm lower; has been cut.
Long joint length	308		
Long joint - south tenon length	30.3		
Long joint - north tenon length	25.5		
Bell length	173		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	100		
Wing - tone hole 2 distance from north	125		
Wing - tone hole 3 distance from north	145		
Butt - tone hole 4 distance from north	48		Measured from longest bore (small)
Butt - tone hole 5 distance from north	71		Measured from longest bore (small)
Butt - tone hole 6 distance from north	95		Measured from longest bore (small)
Butt - tone hole F distance from north	172		Measured from longest bore (small)
Butt - tone hole E distance from north	64		Measured from longest bore (small)
Butt - tone hole Ab distance from north	185		Measured from longest bore (small)
Butt - tone hole F# distance from north	141		Measured from longest bore (small)
Long joint - tone hole D distance from north	270		
Long joint - tone hole Eb distance from north	234		
Long joint - tone hole C distance from north	167		

13-key fagottino, Jean-Nicholas SAVARY JEUNE (2), Paris, 1827

Long joint - tone hole Bb distance from north	58.4		
Wing - major axis at tone hole 1	36.5		
Wing - major axis at tone hole 2	37		
Wing - major axis at tone hole 3	38		
Butt - major axis (side to side) at tone hole 4	49.7		
Butt - minor axis (front to back) at tone hole 4	35.3		
Butt - major axis (side to side) at tone hole 5	48.8		
Butt - minor axis (front to back) at tone hole 5	35		
Butt - major axis (side to side) at tone hole 6	48		
Butt - minor axis (front to back) at tone hole 6	33.7		
Butt - major axis (side to side) at tone hole F	45.6		
Butt - minor axis (front to back) at tone hole F	28.3		
Butt - major axis (side to side) at tone hole E	49.2		
Butt - minor axis (front to back) at tone hole E	35		
ellipse	44		With ferrule. Glue from a modern repair
Butt - minor axis (front to back) of the bottom butt ellipse	30		
Butt - major axis (side to side) of the top butt ellipse	49.6		
Butt - minor axis (front to back) of the top butt ellipse	35.6		
Butt - cork major axis (side to side)	36		
Butt - cork minor axis (front to back)	15.8		
Long joint - minor axis (front to back) at tone hole D	30		With platform + 2.5 mm
Long joint - major axis (side to side) at tone hole D	28		
Long joint - minor axis (front to back) at tone hole Eb	30.9		With platform
Long joint - major axis (side to side) at tone hole Eb	31.4		
Long joint - minor axis (front to back) at tone hole C	x		

13-key fagottino, Jean-Nicholas SAVARY JEUNE (2), Paris, 1827

Long joint - major axis (side to side) at tone hole C	30.3		
Long joint - minor axis (front to back) at tone hole Bb	33.4		
Long joint - major axis (side to side) at tone hole Bb	32.6		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	46° North		
Wing - tone hole 2 angle	29.5° South		
Wing - tone hole 3 angle	South		
Wing - tone hole 1 approx. Ø	3.9		
Wing - tone hole 2 approx. Ø	5.1		
Wing - tone hole 3 approx. Ø	4.4		
Wing - tone hole 1 approx. length	37.3		
Wing - tone hole 2 approx. length	25.7		
Wing - tone hole 3 approx. length	25		
Butt - tone hole 4 angle	32.5° North		
Butt - tone hole 5 angle	South		
Butt - tone hole 6 angle	South		
Butt - tone hole E angle	22° South		
Butt - tone hole 4 approx. Ø	5.4		
Butt - tone hole 5 approx. Ø	5.5		
Butt - tone hole 6 approx. Ø	4.4		
Butt - tone hole E approx. Ø	6.8		
Butt - tone hole 4 approx. length	20		
Butt - tone hole 5 approx. length	19		
Butt - tone hole 6 approx. length	20.9		
Butt - tone hole E approx. length	12		

13-key fagottino, Jean-Nicholas SAVARY JEUNE (2), Paris, 1827

Long joint - tone hole C angle	x		
Long joint - tone hole C Ø	x		
Long joint - tone hole C approx. length	x		
BASIC - INSIDE			
Inner bore length			
Bore length	1068.5		
Wing bore length	229		
Butt - small bore length	210		
Butt - big bore length	207		Cork in very bad condition. Consider also difference of ca. 2.6 mm length of two bores.
Butt - small bore socket length	26.3		
Butt - big bore socket length	31.2		
Butt - small bore beginning of septum	185		
Butt - big bore beginning of septum	182.5		
Long joint bore length	309		
Bell bore length	173		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	6.7		
Wing bore Ø south	12.6	12.7	
Bocal well length	17.5		
Butt - small bore Ø north	12.9		
Butt - big bore Ø north	19		
Long joint Ø north	25	25.5	
Long joint Ø south	18.5	19	
Bell bore Ø north	22.2	27.5	Flares at top
Bell bore Ø south	24.4		
Bell socket length	26		

13-key fagottino, Jean-Nicholas SAVARY JEUNE (2), Paris, 1827

Bocal Ø at the beginning	3.3	3.9	Inside/outside
Bocal thickness at the beginning	0.3	0.5	
Bocal Ø at the tenon	6.5	8	Inside/outside
Bocal thickness at the tenon	0.6		
Bocal length (along top)	171		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	3.5	3.6	
Bocal well ferrule thickness	0.3	0.4	
Wing - tenon thickness	2.5	2.8	
Wing - tenon northern extern. Ø	15.8		
Wing - tenon southern extern. Ø	17.3		
Wing - tone hole A distance from north	46.5		
Wing - tone hole A angle	x		
Wing - tone hole A approx. Ø	2.8		
Wing - tone hole A approx. length	2.8		
Wing - tone hole C distance from north	27.2		
Wing - tone hole C angle	x		
Wing - tone hole C approx. Ø	2.3		
Wing - tone hole C approx. length	2.3		
Butt - big socket thickness with ferrule	1.7		
Butt - small socket thickness with ferrule	2		
Butt - top ferrule thickness	0.5		
Minimum wall thickness between butt sockets	1		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	14		
Butt - small bore cork Ø - bottom	14		
Butt - wood wall between cork/front - small bore	3.6		With ferrule

13-key fagottino, Jean-Nicholas SAVARY JEUNE (2), Paris, 1827

Butt - wood wall between cork/front - big bore	4.6		With ferrule
Butt - wood wall between cork/back - small bore	7.7		
Butt - wood wall between cork/back - big bore	7		
Wood wall between cork/side - small bore	3.7		
Wood wall between cork/side - big bore	4.6		
Butt - bottom ferrule thickness	0.7		
Long joint - south tenon thickness	2.5		
Long joint - south tenon northern extern. Ø	24.1		
Long joint - south tenon southern extern. Ø	23.5	23.8	
Long joint - north tenon thickness	2.2		
Long joint - north tenon northern extern. Ø	29		
Long joint - north tenon southern extern. Ø	28.8	29.3	
Bell socket thickness with brass	2		
Brass thickness of the bell ferrule	0.5	0.6	
Bell ferrule height	24		
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	8.1		
Butt - tone hole F approx. Ø	7.4		
Butt - tone hole F# approx. Ø	5.8		
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		

13-key fagottino, Jean-Nicholas SAVARY JEUNE (2), Paris, 1827

Long joint - tone hole B \flat angle	x		
Long joint - tone hole D approx. \emptyset	11.1		
Long joint - tone hole E \flat approx. \emptyset	6.8		
Long joint - tone hole B \flat approx. \emptyset	10.2		
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	159		
Wing - tone hole 2 distance from south	95		
Wing - tone hole 3 distance from south	74		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	37		Measured from longest bore (small)
Butt - tone hole 5 distance from north	74		Measured from longest bore (small)
Butt - tone hole 6 distance from north	10		Measured from longest bore (small)
Butt - tone hole Ab distance from north	190		Measured from shortest bore (big)
Butt - tone hole F distance from north	169		Measured from shortest bore (big)
Butt - tone hole F \sharp distance from north	145		Measured from shortest bore (big)
Butt - tone hole E distance from north	70		Measured from shortest bore (big)
Long joint - tone hole D distance from north	270		
Long joint- tone hole E \flat distance from north	238		
Long joint - tone hole C distance from north	170		
Long joint - hole B \flat distance from north	60		
Bell - vent hole distance from north	x		
EXTRAS			

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Butt joint - tone hole Ab (RT) approx. Ø	6		
Butt joint big bore socket - height of ledge	2.6		
Butt - tone hole Ab front distance from north	143		
Butt joint - Ab Ø front	7.2		
Long joint - C# Ø	7.4		
Long joint - B Ø	6.7		
Long joint C# Ø	7.5		
Long joint B Ø	7.5		
Long joint - tone hole C# distance from north	112		
Long joint - tone hole B distance from north	30		