

# Constant and variable scaling

Key to literary references: Klaus-Jürgen Sachs, *Mensura fistularum* ISBN 3 920670 00 0  
(those given on the left side mention variable scaling).

Antiquity: Aquincum, Avenches? Dion? = constant scaling [but varies between ranks]

## Literature

## Iconography

>10 sources - all CS

-11<sup>th</sup>c

2 sources: 2 CS

Mahrenholz quotes ca. 10 sources not mentioned by Sachs, including Hucbald (c840-930), Bernelinus (c990), Aribo (\*c990- †1031 Apr 6) and Aribo quoting Wilhelm of Hirsau (†1091). All represent constant scaling.

Mahrenholz believes that scaling became wider in the 11<sup>th</sup> and 12<sup>th</sup> centuries (that is wider than the “pigeon’s egg” measurements given in the Anonymous of Bern)

26 sources: 25 CS/1 VS

12<sup>th</sup>c

3 sources: 2CS/1 ?V

Saint Florian XI 35

7 sources: 7 CS/0 VS

13<sup>th</sup>c

13 sources: 10-11 CS/2-3 VS?

Hans Hickmann only finds evidence for varying flue pipe scales “by the 14<sup>th</sup>c”.

18 sources: 15 CS/3 VS

14<sup>th</sup>c

13 sources: 10 CS/3 ?V

Milano D.5.inf.

Formata prima voce etc. dividatur totum gamma ut ...

Erfurt Ca 20 395 (ca. 1373)

Incipit mensura ad faciendum opus organicum ...

Paris lat. 7400 A

Si quis concordiam organorum scire voluerit ...

8 sources: 4 CS/4 VS

15<sup>th</sup>c

39 sources: 26 CS/7 V?/6 VS

Oxford Bodl. 300 (first half of c)

Circa latitudinem fistularum est sciendum ...

Cambridge 410 (Part I)

Ad similitudinem autem monocordi sunt organa construenda ...

Milano H.233.inf

Cambrai - “scaling slightly variable”

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Mainly CS ~ Dividing line ~ Mainly VS

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Paris lat.7295 (Arnaut de Zwolle)

Compositio fimbriae quod est initium organorum ...

Paris hébr. 1037 folio 27 two items in Hebrew: (Tekh na hajeschana and Tekh na chadascha)

16<sup>th</sup>c

14 sources: 3 CS/7 ?V/4 VS

**München clm 18695 (1529-31)**

Nunc de calamorum seu fistularum ad sonos habitudine ...

27 further sources from this era are awaiting more exact classification/century allocation.

They represent: 19 CS/5 ?V/3 VS

**Totals to mid 15<sup>th</sup>c: ~112 CS ~28 VS or ?VS = 80% CS**

(organetti/ninfale/portatives are included in this survey)