

# Diatom Flora of the Low Countries

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## ***Amphora pediculus* (F.T. Kützing) A. Grunow in A. Schmidt et al. 1875.**

**Basionym:** *Cymbella pediculus* F.T. Kützing 1844

**Synonyms:** *Amphora ovalis* var. *pediculus* (F.T. Kützing) H.F. van Heurck 1885; *Amphora ehrenbergii* Woodhead & Tweed 1960; *Amphora globulosa* var. *perpusilla* Grunow in Van Heurck 1880; *Amphora perpusilla* A. Grunow 1884

### **Morphology**

Valves semi-elliptical with arched dorsal margin and concave to straight margin, never tumid in the middle. Valve end broadly rounded. Axial area very narrow, linear. Central area on both sides a broad fascia extending to the valve margin. Raphe filiform with straight proximal raphe fissures; distal raphe endings dorsally deflected. Dorsal striae punctate, parallel in the middle becoming radiate at the ends; ventral radiate in the middle becoming strongly convergent at the ends, composed of one single elongated areola.

### **Morphometrics**

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=10)	7.2-13.5	2.5-3.2	D: 18 V:16	
Levkov 2009	7-15	2.5-4	D:18-24 V: 16-22	
Nagumo 2003	5-18	2-4	D:(16)18-25 V:16-23(25)	

### **Related species**

*Amphora indistincta* Levkov (striae composed of elongated areolae); *Amphora inariensis* Krammer (valve ends narrowly rounded and ventrally bent; central area on ventral slightly broader; axial area more situated in the middle; striae not punctated).

### **Distribution**

Cosmopolitan. Sliedrechtse- en Brabantse Biesbosch, Lobith ponton, Stevensweert aanlegsteiger, Molenbeek Moorveld voor Waalsebeek, Hofweidebeek zijtak, Scheumerbeek zijtak, Kathargerbemden bron c, Honsbeek bron W3, Gingbohn bron, Planckerbeek bronloop, Brielse Meer, Hagestein boven sluis, Dieze, Gemaal Zuiderdieppolder (NL); Ijse, Lokanaal, Zenne, Toeristische Leie, Dijle, Albertkanaal, Zuidlede, Kanaal Kortrijk-Bossuit, Merebeek, Afleidingskanaal Leie, Kanaal Brussel-Schelde, Grote Nete, Dender, IJzer, Lossing, Zwalm, Mark, Poekebeek, Dijle, Jeker (B).

### **Ecology**

Widely distributed freshwater species. Occasionally in eutrophic and moderately polluted waters.

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## Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2	2	2	2	5	3

IPS  
(Cemagref 1982)

IPS-S	IPS-V
4	1

Rott et al. 1997, 1999

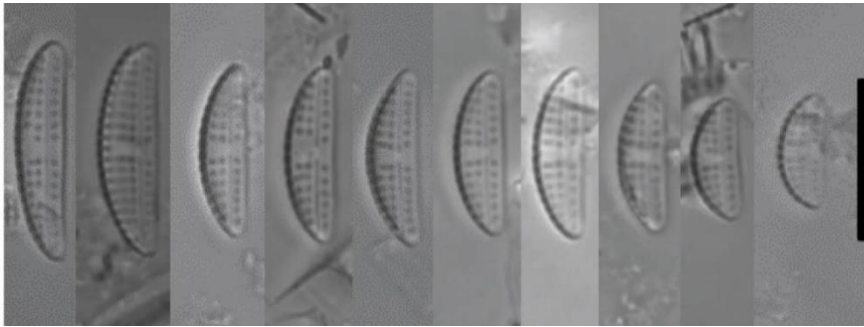
Rott SI s	Rott SI v	Rott TI s	Rott TI v
2.1	2	2.8	2

TDI  
(Kelly & Whitton 1995)

TI-S	TI-V
5	2

## Remarks

The Netherlands



## References:

- Lange-Bertalot, H., G. Hofmann, M. Werum & M. Cantonati (2017) Freshwater Benthic Diatoms of Central Europe.  
Levkov, Z. (2009) *Amphora* sensu lato. Diatoms of Europe 5.  
Nagumo, T. (2003) Taxonomic studies of the subgenus *Amphora*. Bibliotheca Diatomologica Band 49.

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