



eco-PEN XS



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HOW IT WORKS

Our ecoPEN XS is a true volumetric dispensing system that applies the smallest amounts of singlecomponent fluids – for highprecision dispensing technology. Thanks to the proven endless piston principle, watery to pasty liquids are perfectlydispensed. A clean, processreliable dosage is achieved regardless of fluctuations in viscosity.

preeflow® stands for highquality products, from control units to dispensers. Always true to the motto: „smaller, more precise, more economical“. They are suitable for manual workstations, such as workbench applications, or for semi and fully automated operation.



Designation	eco-PEN XS 180
Dimensions (without cartridge and holder)	length 178 mm, width 22 mm, depth 65 mm
Weight	175 g (without cartridge and holder)
Operating pressure (1)	0 – 6 bar
Max. dispensing pressure (2)	20 bar
Viscosity	watery to pasty
Volume flow	0.0044 – 0.35 ml/min
Min. dispensing quantity	0.25 µl
Dosing accuracy (3)	± 1%
Stator material (4)	VisChem
Material inlet	Luer-Lock adapter for cartridge (cartridge can be rotated 360°) / Adapter for hose connection (Ø - 3mm)
Material outlet	Luer-Lock (patented)
Wetted parts (4)	POM / VisChem / stainless steel / HD-PE
Operating conditions	10 – 40 °C
Repeatability	> 99 %

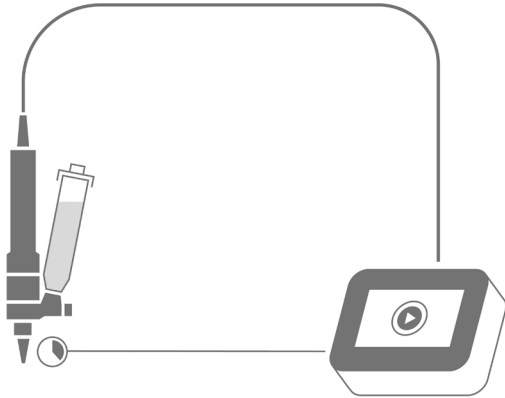
(1) Non-self-levelling liquid.

(2) Max. dispensing pressure and selfsealing decrease with decreasing viscosity, increase with increasing viscosity. Consult with the manufacturer.

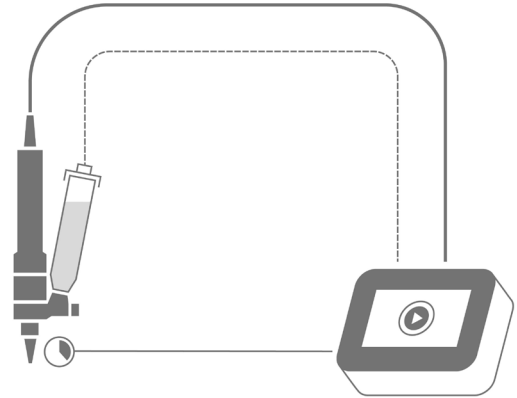
(3) Volumetric dispensing as absolute variation relative to one dispenser rotation. Depends on the viscosity of the dispensing material.

(4) The materials listed are standard. Other variants are available on request, e.g. VisLas stator / driveline with diamond-coated rotor / PTFE seals / stainless steel housing.

SYSTEM PRESENTATION



Self-levelling liquid, low viscosity material



Nonselflevelling liquid, medium to high viscosity material, incl. pressure feed

APPLICATION EXAMPLE

The miniaturization of components is becoming increasingly important, especially in the electronics sector and in SMT production (SMT = surface mounted technology). As a result, the requirements for dispensing minimal quantities of materials with a wide range of viscosities are also increasing. The ecoPEN series from preeflow® meets these market requirements. The microdispensing units achieve the smallest dispensing results of up to 0.00025 ml (0,25 µl) and can therefore be implemented into almost any dispensing application.

Among the advantages that the customer benefits from, through the integration of the ecoPEN into their system, are precision, a repeat accuracy of $\geq 99\%$, a stable process and a clean dispensing application.



TECHNICAL FEATURES

**MORE INFORMATION CAN
BE FOUND AT**



[www.preeflow.com/en/
products/1kdispenser/](http://www.preeflow.com/en/products/1kdispenser/)



Genuine volumetric dispensing



Dispensing regardless of viscosity



Dosing independent of input pressure



Pressure-tight without valve



Suck-back effect



Easy cleaning



Adjustable dispensing flow



Dispensing pressures from 0 to 20 bar



360° rotatable cartridge connection