



eco-DUO



HOW IT WORKS

The 2 component mixing and dispensing systems from preeflow®: true volumetric output for 2 component materials. The smallest quantities of 2 component fluids and pastes are precisely mixed and dispensed. The mixing ratio is set to the second decimal place by targeted control of the individual components. A clean, process-reliable dose is achieved regardless of fluctuations in viscosity.

The preeflow® devices of the eco-DUO series are characterised by controlled thread break-off thanks to the suck-back effect, process reliability due to pressure monitoring and further functions. With simple and safe operation, the 2 component dispensers can be used widely. Experience for yourself precise mechanics combined with state-of-the-art digital control technology.



Description	eco-DUO330	eco-DUO450	eco-DUO600
Art. No.	21529	20639	21175
Measurements	228 mm x 163 mm	228 mm x 163 mm	301 mm x 163 mm
Weight	1230 g	1230 g	1880 g
Operating pressure	0 – 20 bar	0 – 20 bar	0 – 20 bar
Max. dispensing pressure (1) (4)	40 bar	40 bar	40 bar
Viscosity	watery to pasty	watery to pasty	watery to pasty
Volume flow (3)	0.1 – 6.6 ml/min (at 1:1)	0.2 – 12 ml/min (at 1:1)	0.6 – 32.0 ml/min (at 1:1)
Min. dispensing quantity	0.005 ml	0.010 ml	0.030 ml
Dispensing accuracy (2)	± 1 %	± 1 %	± 1 %
Mix ratio	1:1 – 10:1	1:1 – 10:1	1:1 – 10:1
Stator material	VisChem (optional VisLas)	VisChem (optional VisLas)	VisChem (optional VisLas)
Material inlet	G 1/8" DIN/ISO 228	G 1/8" DIN/ISO 228	G 1/4" DIN/ISO 228
Material outlet	static mixer, bayonet lock	static mixer, bayonet lock	static mixer, bayonet lock
Wetted parts	Aluminium, anodized / POM / stainless steel / VisChem / HD-PE (optional VisLas)	Aluminium, anodized / POM / stainless steel / VisChem / HD-PE (optional VisLas)	Aluminium, anodized / POM / stainless steel / VisChem / HD-PE (optional VisLas)
Operating conditions	10 – 40 °C	10 – 40 °C	10 – 40 °C
Repeat accuracy	> 99 %	> 99 %	> 99 %

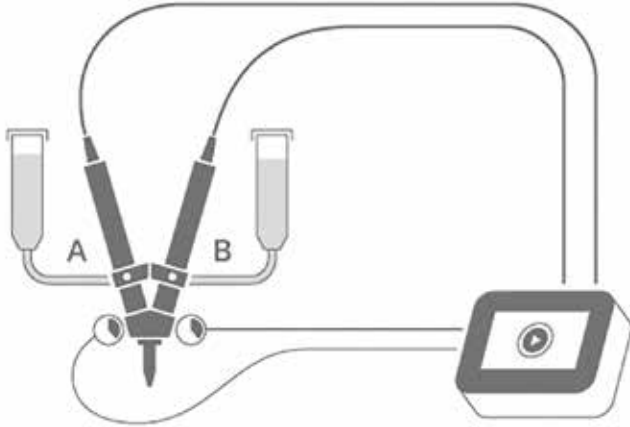
(1) Max. dispensing pressure and self-sealing decrease with decreasing viscosity, increase with increasing viscosity. Consult the manufacturer.

(2) Volumetric dispensing as absolute deviation related to one revolution of the dispenser. Depends on the viscosity of the material dispensed.

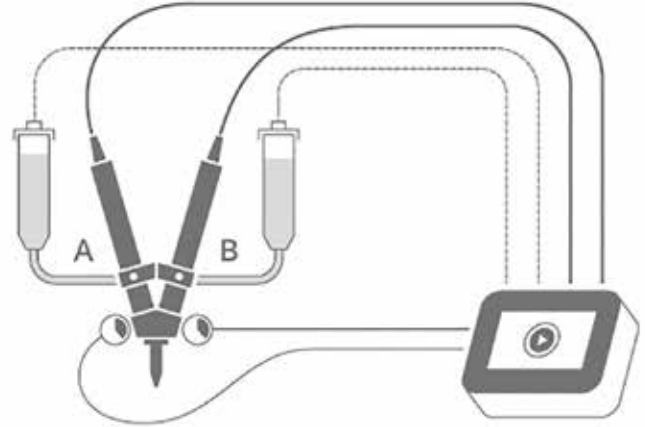
(3) Max. flow rate depends on viscosity, inlet pressure and mixing ratio.

(4) Depending on the mixer.

SYSTEM PRESENTATION



Self-levelling liquid, low-viscosity material, incl. sensor technology

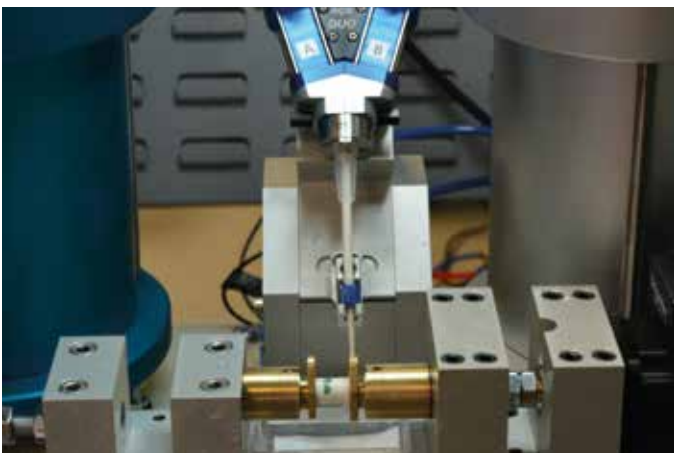


Non-self-levelling liquids, medium to high viscosity material, incl. sensor technology and pressure feed

APPLICATION EXAMPLE

Precise application, repeat accuracy, exact dispensing volume, viscosity independence and the right mixing ratio: the eco-DUO450 performs to your expectations. The 2 component micro-dispenser from preeflow® is therefore perfectly suited for applications in medical technology, for example. By using an eco-DUO450, the customer can benefit from numerous advantages such as increased productivity, lower material consumption and reduced waste.

Ever smaller, ever thinner and ever more powerful - in the electronics industry, innovative and space-saving joining technologies are in demand that neither stand in the way of miniaturization nor mass production. The micro-dispenser, in particular the 2 component dispenser eco-DUO330, performs well with a minimum dose of 0.001 ml. In every adhesive application, no matter how fine it may be, such as when bonding miniature cameras into smartphones, the micro-dispenser proves itself with its clean adhesive application.



TECHNICAL FEATURES

**MORE INFORMATION
CAN BE FOUND AT**



[www.preeflow.com/en/
products/2k-dispenser/](http://www.preeflow.com/en/products/2k-dispenser/)



Genuine volumetric dispensing



Viscosity-independent dispensing



Dosage independent of input pressure



Pressure-tight without valve



Suck-back effect



Easy cleaning



Adjustable mixing ratio



Dispensing pressures from 0 to 40 bar