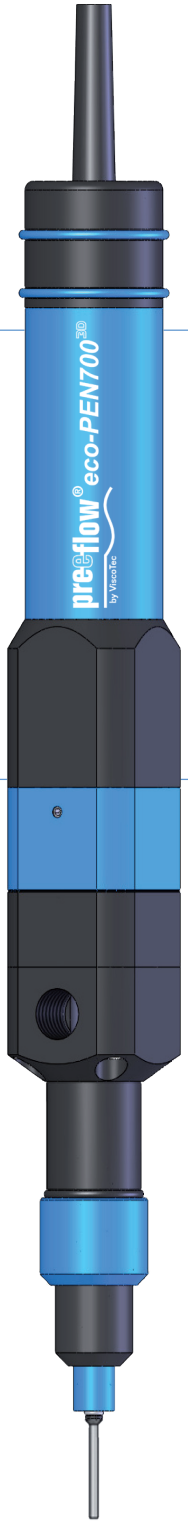
Art.-No. 20723

Business Unit Components & Devices

Dosing technology
Dosing system



preeflow® by ViscoTec **eco-PEN700 3D**

DESCRIPTION

The new and innovative precision-volume-dispenser eco-PEN700 made by ViscoTec offers a wide range of applications for low to medium-viscosity dispensing.

THEORY OF FUNCTION

preeflow® eco-PEN is a rotating and perfectly pressure-tight displacement system. Self-sealing rotor/stator design. Conveyance action by medium displacement in the stator through controlled rotor rotation. Safe conveyance without any modification of the medium. With its suck back option, preeflow® ensures clean and controlled material or medium cut-off while preventing post-dripping effects.

APPLICATION

On-the-dot dosage with maximum volumetric precision – dot-and-bead application with application speeds adaptable to track speeds – joint sealing technology.

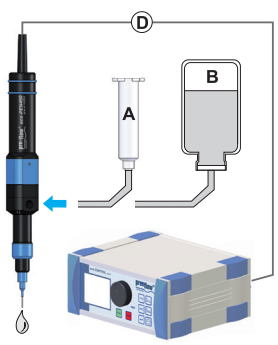
RANGE OF USES

- Fats
- Oils
- Colours
- Silicones
- Sealing compounds
- Abrasive media
- Adhesives

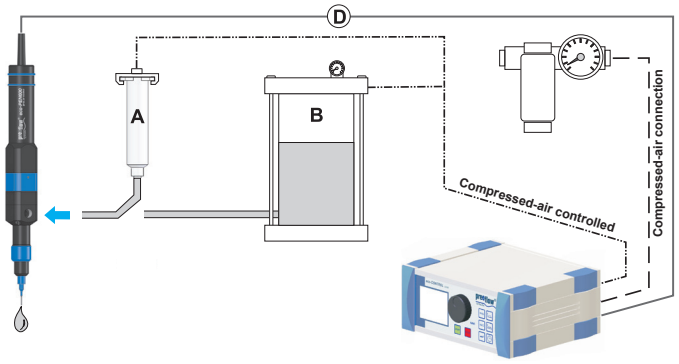
TECHNICAL FEATURES

- Genuine volumetric dosing
- Viscosity-independent dosing
- Primary pressure-autonomous dosing
- Pressure-tight without valve
- Suck back effect
- Easy to clean
- Controllable dosing flow
- Range of dosing pressures 8 - 10 bar

Self-levelling fluid, low-viscosity medium



Non-self levelling fluids, medium to high-viscosity medium



preeflow® by ViscoTec eco-PEN700 3D

Fig.: Side view

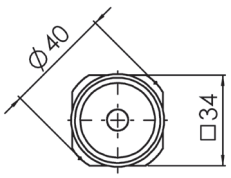
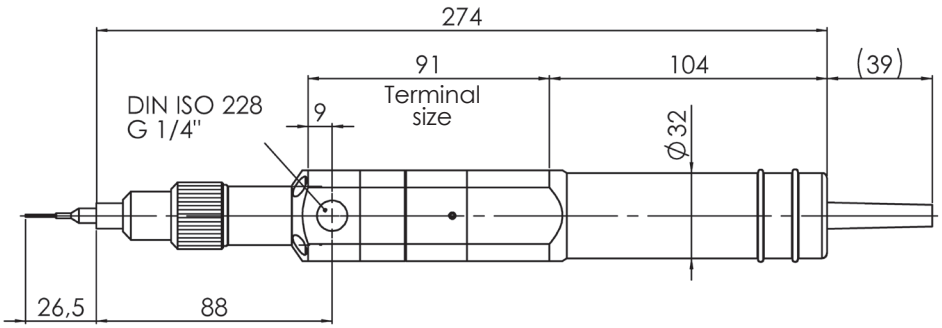


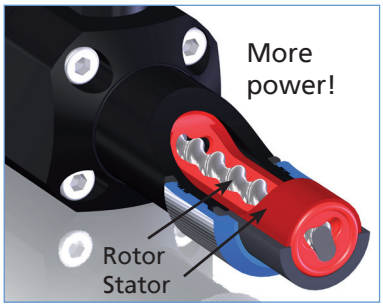
Fig.: Front view



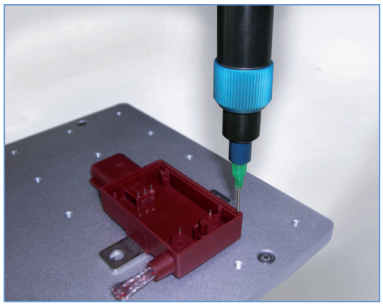
NEW: Volumetric dispensing for the next generation with three dimensional geometry. 3D-Dispensing!

TECHNICAL DATA

Dimensions:	Length 274 mm,□ 34x34 mm, ø 40 mm
Weight:	approx. 750 gram
Material infeed:	1/4" cylindrical Whitworth pipe thread DIN/ISO 228
Material outfeed:	Luer lock
Min. operating pressure:	0 bar, self-levelling-fluid
Max. operating pressure:	0 to 6 bar input pressure, non-self-levelling-fluid
Max. dosing pressure:	8 to 10 bar
Intrinsic tightness(1):	approx. 2 bar (reference medium approx. 10mPas at 20°C)
Parts in contact with the media:	HD-POM / stainless steel
Seals:	High-molecular PE, VisChem
Static seals:	Viton O ring
Motor:	18 - 24 V DC, incremental encoder, planetary gears
Operating conditions:	+10°C to +40°C, air pressure 1 bar
Medium temperature:	+10°C to +40°C
Storage environment:	dry & dust-free, -10°C to +40°C
Approx. dosing volume per revolution:	0.53 Millilitres per revolution
Accuracy of dosing(2):	± 1%
Repeat accuracy:	> 99%
Min. dosing quantity:	0.06 millilitres
Volume flow(3):	5.3 to 60 millilitres per minute



3D-Dispensing



(1) Max. dosing pressure and intrinsic tightness will decrease in direct proportion to a decrease in viscosity and increase in direct proportion to an increase in viscosity. Consultation with the manufacturer recommended.

(2) Volumetric dosing as absolute deviation in relation to one dispenser revolution. Depends on the viscosity of the dosing medium.

(3) Volume flow depends on viscosity and primary pressure.