











Overview Dispenser and Dosing pumps

Business Unit Adhesives & Chemicals

	<p>Dispenser RD-EC series</p>	<ul style="list-style-type: none"> • Dosing volume: from ~0.05 ml/rev to ~5.0 ml/rev • Volume flow: from ~0.5 ml/min to 625 ml/min* • Min. dosing volume: 0.002 ml**
	<p>2-component Dispenser ViscoDuo-P 4/4</p>	<ul style="list-style-type: none"> • Mixing ratio 1:1 to 10:1* (depending on the version) • Dosing volume: 0.05 ml/rev per dispenser • Min. dosing volume: 0.01 ml*** each mixing head • Max. continuous output volume: ~0.2 ml/s respectively 12.0 ml/min*
	<p>2-component Dispenser ViscoDuo-VM</p>	<ul style="list-style-type: none"> • Mixing ratio 100:100 to 100:1* • Dosing volume: from 0.12 to 5.0 ml/rev • Min. dosing volume: ~0.005 ml** • Volume flow: from ~1.2 to 625.0 ml/min*
	<p>2-component Dispenser VisCompact Duo-Desk</p>	<ul style="list-style-type: none"> • 2-component desktop device and dosing system • Mixing ratio: max. 1:10 • Dosing volume (complete A/B): 2.2 ml/rev*** • Min. dosing volume (complete A/B): 0.100 ml**
	<p>Dispenser VMP series</p>	<ul style="list-style-type: none"> • Dosing volume: from 4.0 to 65.0 ml/rev • Volume flow: from ~40.0 ml/min to 8,125.0 ml/min* • Min. dosing volume: 0.25 ml**



Business Unit Food & Cosmetics




	<p>Hygienic Dispenser VHD</p>	<ul style="list-style-type: none"> • Dosing volume: 0.2 ml/rev to 5.1 ml/rev • Min. dosing volume: 0.35 ml** • Design according to EHEDG-guidelines • FDA compliant elastomers
	<p>Dosing pump RD-series (hygienic design)</p>	<ul style="list-style-type: none"> • Dosing volume: 1.0 to ∞ ml/rev • EHEDG compliant for CIP/SIP • Suitable for barrel emptying systems
	<p>Dosing pump VFL series</p>	<ul style="list-style-type: none"> • Dosing volume: 0.5 to ∞ ml/rev • Fast- and Easy-Clean-Version



*depends on viscosity and pre-pressure

**depends on the dosing material

***depends on mixing ration and dosing material

Business Unit Pharma		
	Dispenser Pharma VPHD	<ul style="list-style-type: none"> • Dosing volume: from 0.05 to 50.0 ml • Volume flow: 0.05 to 800 ml/min • GMP design for COP and CIP, incl. 3.1 certificate
	Dosing Pump Pharma RD-series	<ul style="list-style-type: none"> • Dosing volume: from 50.0 to ∞ ml • Volume flow: 0.8 to 150 l/min* • EHEDG certified for CIP/SIP

Brand preeflow® microdispensing		
	Dispenser eco-PEN series	<ul style="list-style-type: none"> • Dosing volume: from ~0.012 to 0.35 ml/rev • Volume flow: from 0.12 to 60.0 ml/min* • Min. dosing volume: from 0.001 to 0.06 ml
	Dispenser eco-DUO series	<ul style="list-style-type: none"> • Mixing ratio: 1:1 to 5:1 • Dosing volume: from ~0.05 to 0.140 ml/rev per dispenser • Volume flow: from 0.2 to 32.0 ml/min* • Min. dosing volume: from 0.01 to 0.03 ml
	Dispenser eco-Spray	<ul style="list-style-type: none"> • Volume flow: from 0.5 to 6.0 ml/min* • Smallest spraying amount: 50 µl • Spraying angle: 15 to 30°

3D print heads		
	1-component print head series vipro-HEAD	<ul style="list-style-type: none"> • Volume flow: 0.28 - 6.0 ml/min • Weight: ~ 750 g • Dosing materials: UV adhesives, epoxy resins, acrylate, silicone, grease, inks, waxes, ceramics, bio-technical suspensions, abrasive pastes and others
	2-component print head ViscoDUO-FDD 4/4	<ul style="list-style-type: none"> • Volume flow: 0.2 - 12 ml/min • Weight: ~ 1100 g • Dosing materials: Epoxy resins, acrylate, silicone, polyurethane, polyester resins and others

*depends on viscosity and pre-pressure
 **depends on the dosing material