



ViscoTec – Newsletter 11 / 2010
Correct dispenser size



Design / choice of correct dispenser size:

The choice of the correct dispenser size is sometimes not easy, because the customer often have different parameters (flow-rate, bead size, dosing quantity, dosing time, etc.). In order to give the customer the correct dispenser size, we have made a small calculation sheet in MS Excel (please see attachment). With the help of this easy calculation you only have to know the minimum flow-rate (ml / min.) and the maximum flow-rate (ml / min.). If you type in these parameters you will get the dispenser speed (rpm) for these flow-rates. If the field gets red, this dispenser size is not suitable for this flow-rate.

You have listed all dispenser sizes: from 3 RD4-dispenser (in combination with ViscoPro-Cm) to the 4 RD6 / 3 RD 8 / 3 RD 10 / 3 RD 12 (in combination with ViscoPro-C) and the 3 VMP15 / 3 VMP18 / 3 VMP 22 –dispenser (in combination with the ViscoProCg).

The maximum speed of the dispenser should not exceed 124 / 125 rpm, but in general the speed should be as less as possible.

Some reference speed of the dispenser are (max. speed):

Silicone: approx. 75 rpm

Solderpaste: approx. 50 rpm

Grease: approx. 125 rpm

Low-viscosity-fluids: approx. 125 rpm

High-viscosity-fluids: approx. 60 rpm

Fluids with filled materials: 50 rpm