

Training 10 – Applications – Filling machines

培训10-应用-灌装机

Introduction 介绍

Filling machines for dairy products are used to fill for example yoghurt into cups.

乳制品的灌装机被用来填充牛奶杯中的酸奶



All filling machine builders in Germany use FlowVision sensors. The picture beneath shows a machine from Waldner.

德国所有的灌装机制造商都使用流量视觉传感器。下面的图片显示了一个来自Waldner的机器。



Application details应用细则

Cups and lids must be sterilised because there must not be any germs inside the cup. To ensure that sterile air is around the cups and lids during sterilisation and filling of the cups. The **flow rate of sterile air to the processes has to be measured** because this is a very critical process variable.

杯子和盖子必须消毒，因为杯子里一定没有细菌。确保无菌空气在杯子和盖子的周围，在消毒和灌装的杯子。因为这是一个非常关键的过程变量，所以必须测量无菌空气的流动速率。

Why are FlowVision products perfect for this application?

为什么FlowVision产品适合这个应用程序?

Filling machines have to be cleaned/sterilised regularly. These processes are called CIP (cleaning in place) and SIP (sterilisation in place).

灌装机必须定期清洗/消毒。这些过程被称为CIP(清理到位)和SIP(适当的消毒)。

Those processes work with very high **temperatures up to 140 °C**. Above that special **aggressive fluids** such as H₂O₂ are used.

这些过程一起工作非常高的温度高达140°C。在这种特殊的液体中，例如H₂O₂。

Which FlowVision products can be used for this application?

该应用程序可使用哪些Flow Vision 产品?

FC01-CA/FC100-CA with monitoring heads CSP/CST/CSF or FC50-CA...00... (push-in type)

FC01-CA / FC100-CA监控头CSP /CST/ CSF或FC50-CA...00...(嵌入的类型)

- Max. admissible fluid temperature: 130 °C
最大容许流体温度:130°C

If the fluid temperature exceeds 130 °C during CIP/SIP process, measurement is automatically paused by FC01-CA/FC100-CA/FC50-CA and automatically restarted as soon as temperature drops to less than 130 °C again.

如果流体温度超过130°C CIP / SIP过程期间,测量由FC01-CA自动暂停/ FC100-CA FC50-CA并自动重启当温度下降到小于130°C。

- Wetted material: Stainless steel 1.4571 (and FKM for FC50-CA...00...)
湿材料:不锈钢1.4571(和FKM FC50-CA...00...)

Those materials can resist H₂O₂ and other aggressive fluids.

这些材料可以抵抗H₂O₂和其他侵略性的液体。