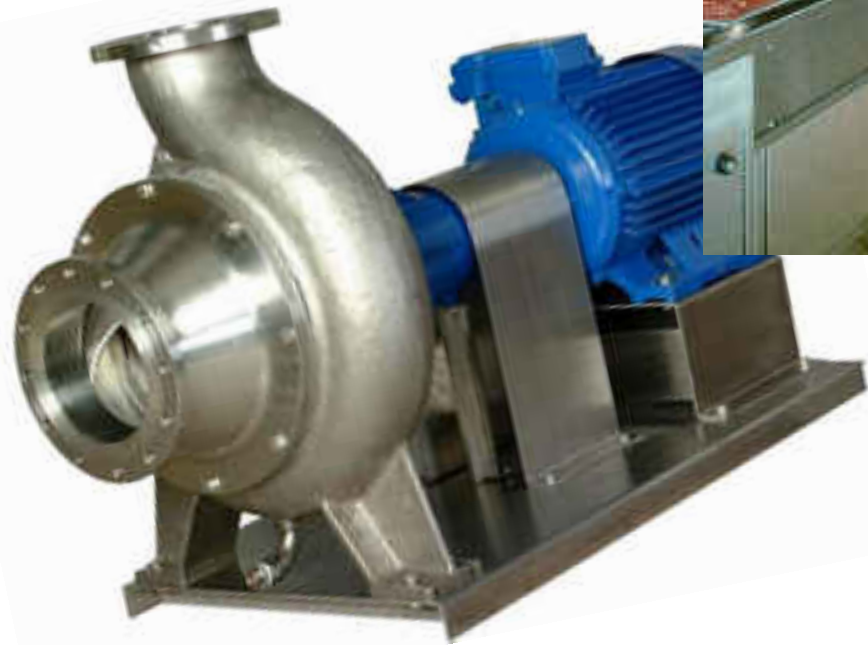


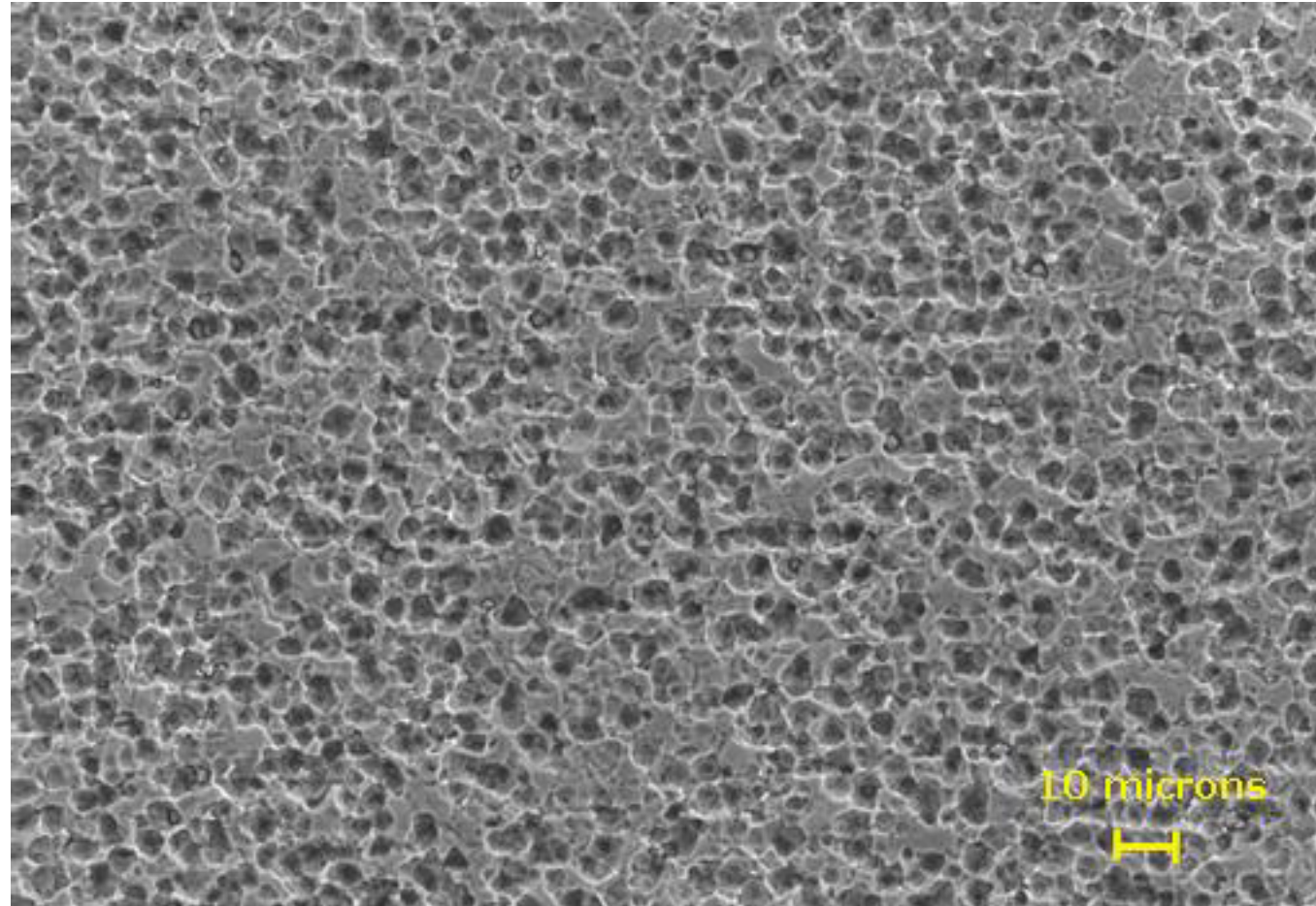
What is hygienic design and why is it important?

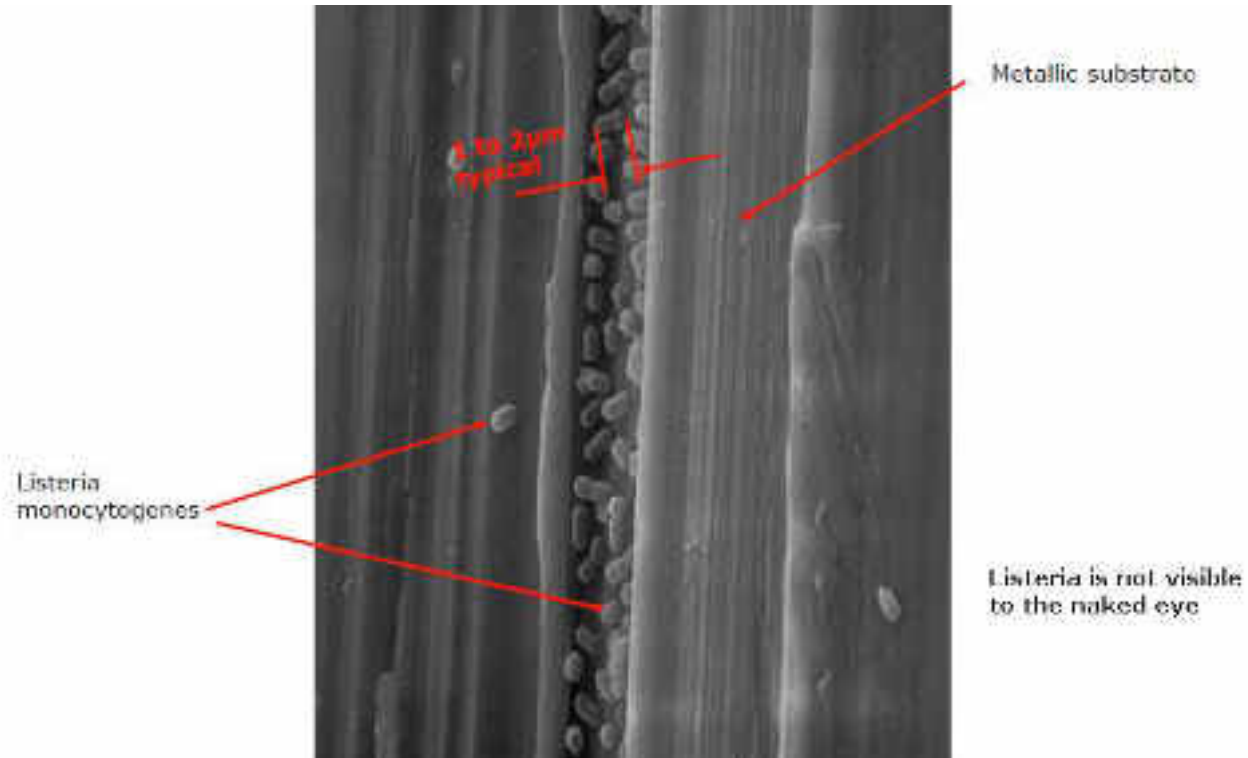
Eric Partington

**European Consultant to the Nickel Institute of Toronto
Chairman of the European Hygienic Engineering and Design Group's
Regional Section serving the UK and Ireland**

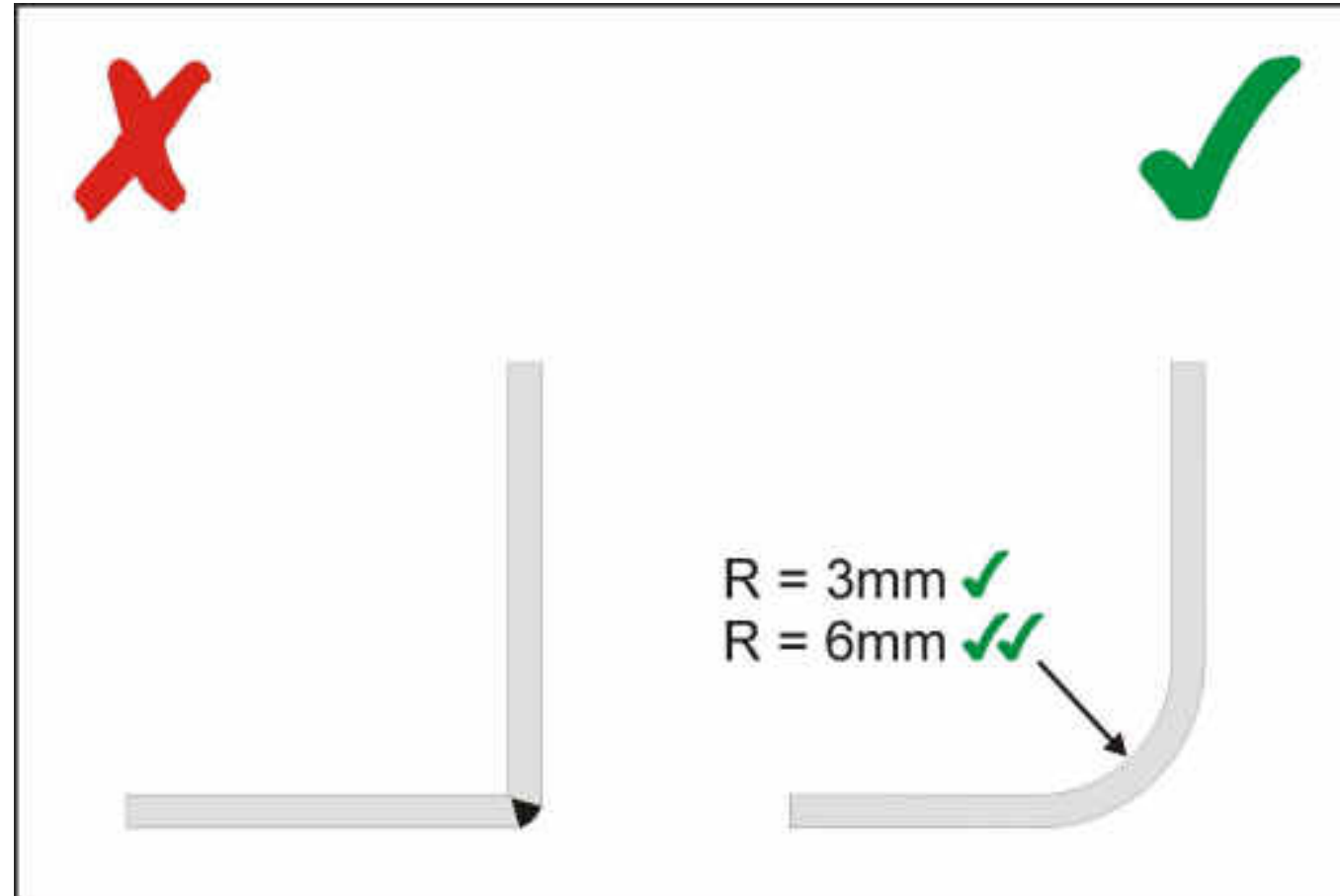
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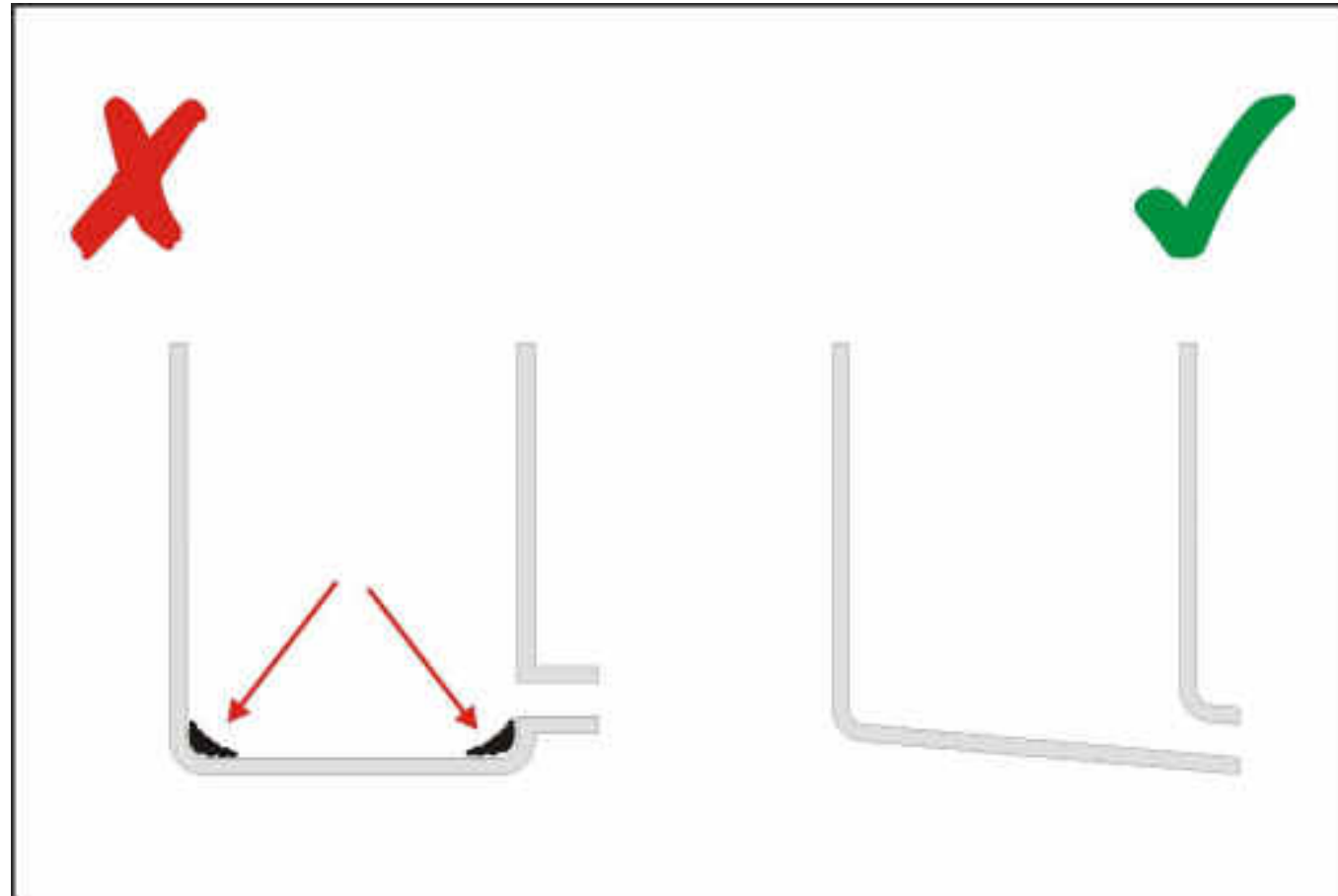


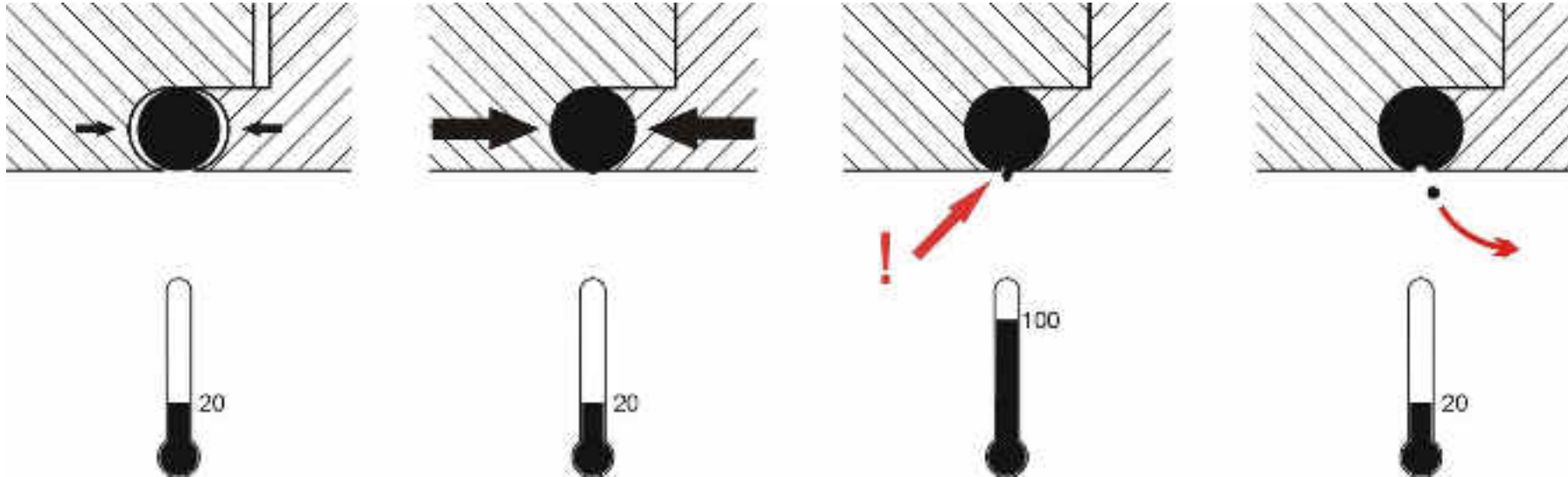


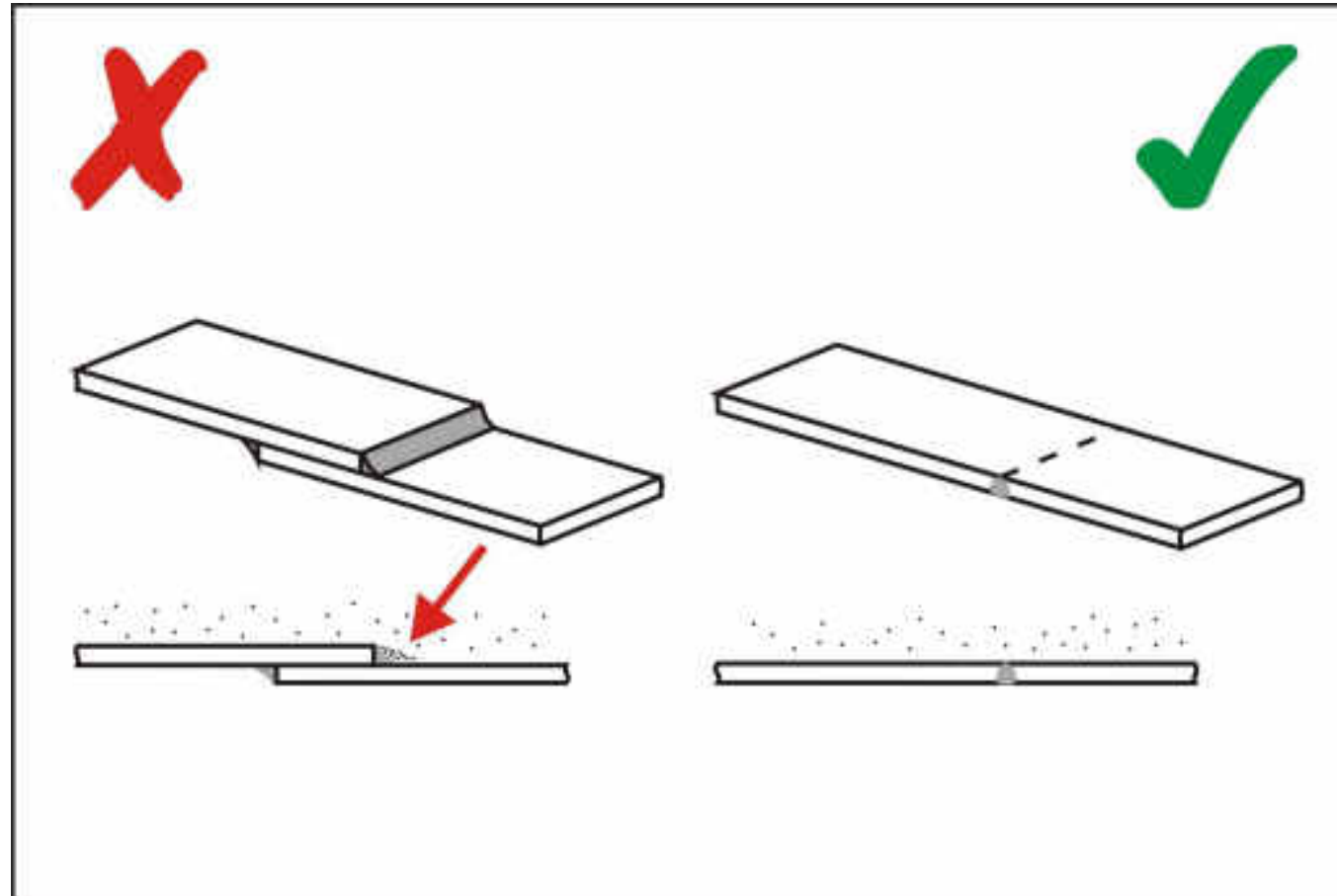


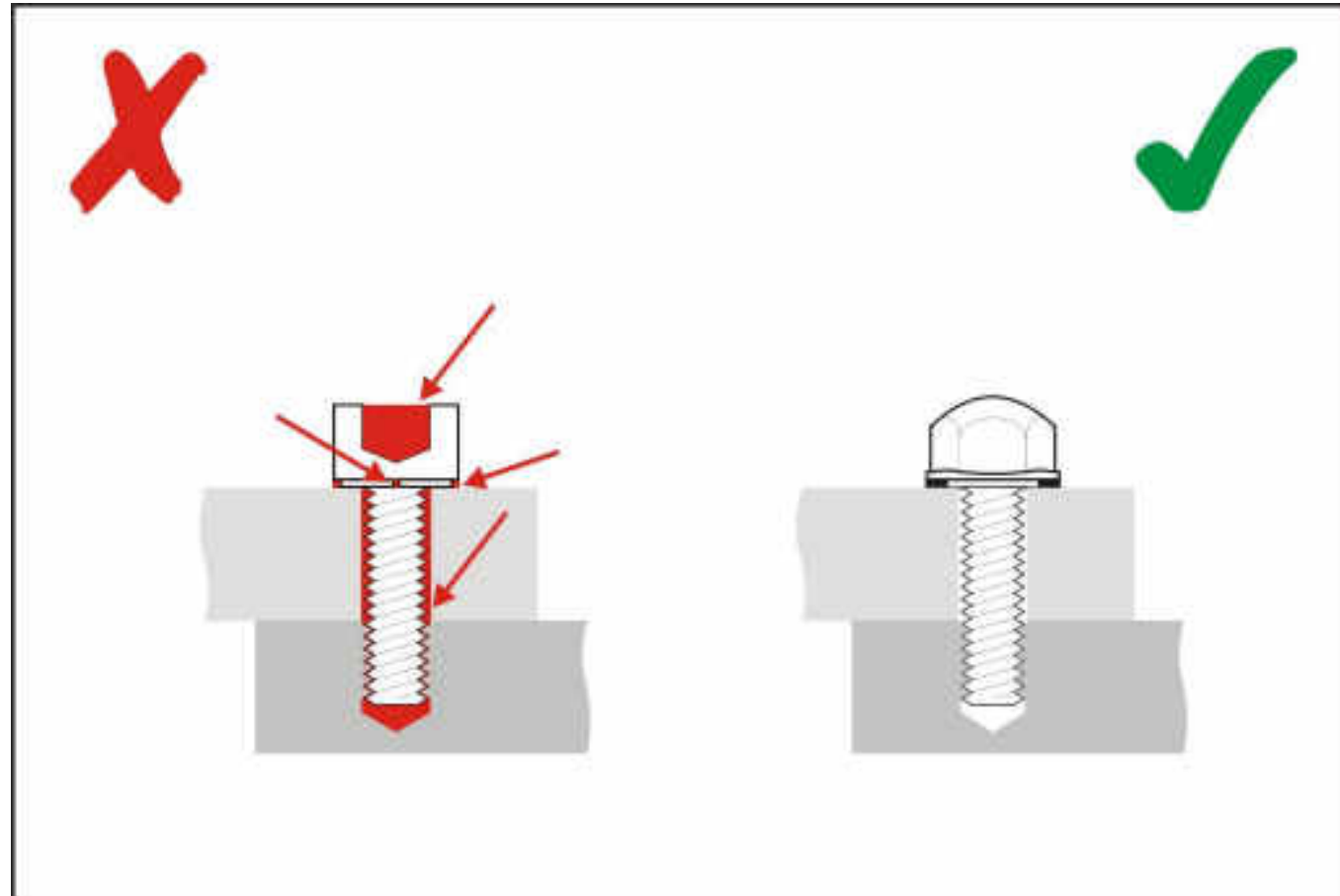


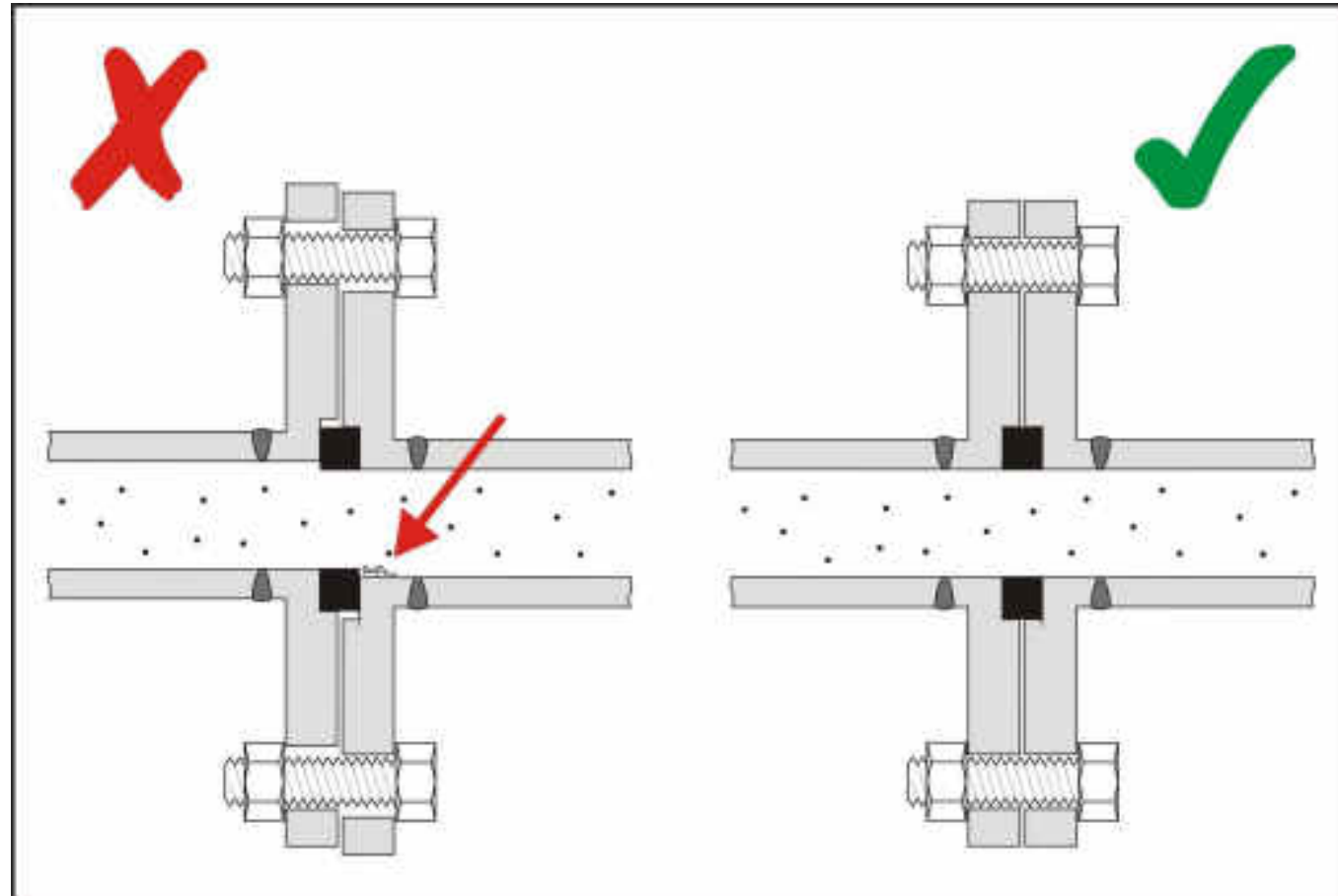






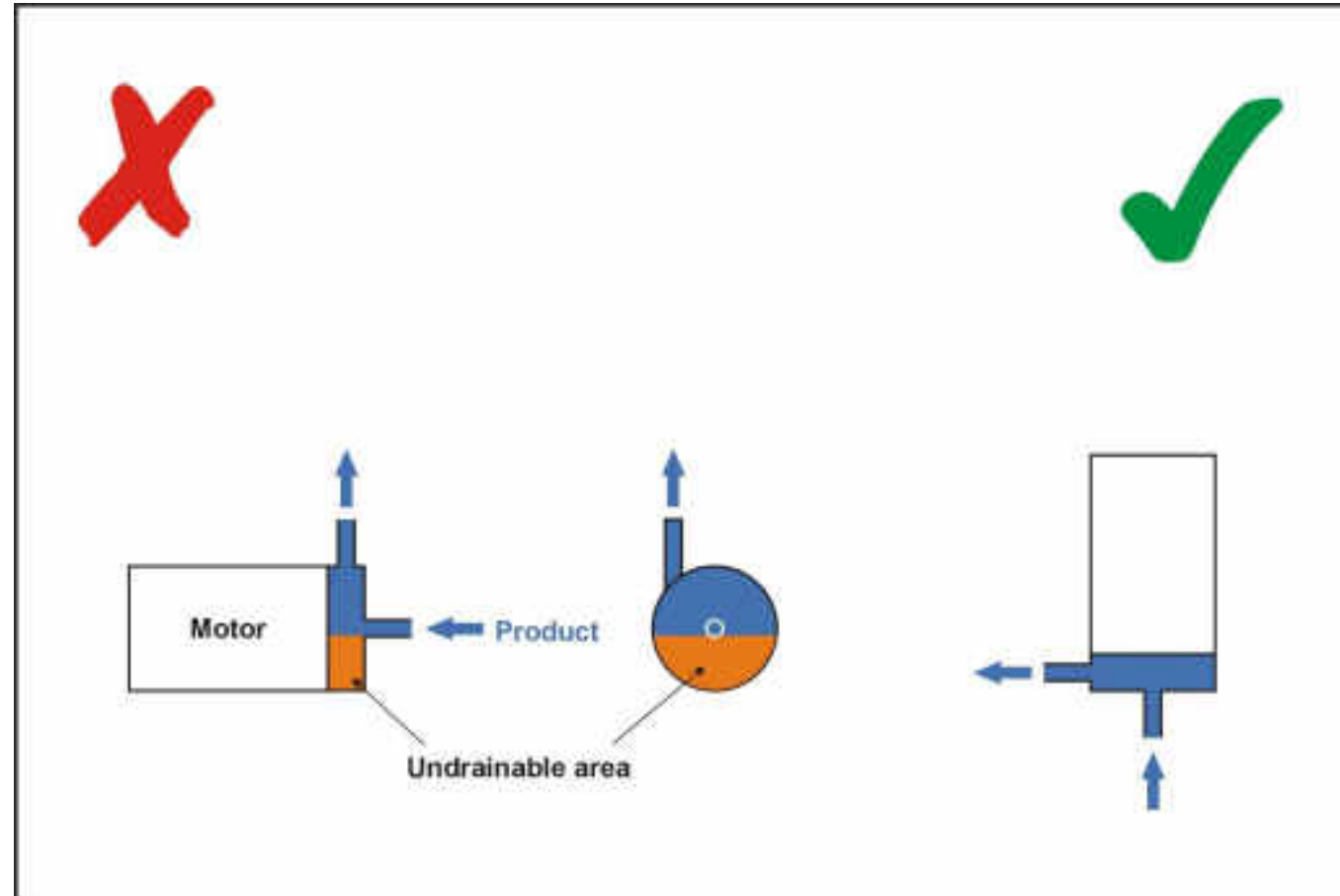






It is important to achieve perfect mating of the boars.

Hilde Knossen







- 1 Microbiologically safe continuous pasteurisation of liquid food
- 2 A method for assessing the in-place cleanability of food processing equipment
- 3 Microbiologically safe aseptic packing of food products
- 4 A method for the assessment of in-line pasteurisation of food processing equipment
- 5 A method for the assessment of in-line sterilisability of food processing equipment
- 6 The microbiologically safe continuous flow thermal sterilisation of liquid foods
- 7 A method for the assessment of bacteria-tightness of food processing equipment
- 8 Hygienic equipment design criteria
- 9 Welding stainless steel to meet hygienic requirements
- 10 Hygienic design of closed equipment for the processing of liquid food
- 11 Hygienic packing of food products
- 12 The continuous or semi-continuous flow thermal treatment of particulate foods
- 13 Hygienic design of equipment for open processing







The EHEDG Secretarial team

with the 2006-2015 EHEDG President, Knuth Lorenzen

Johanna Susanne Jana



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+49 69 6603-1217 / -1430 / -1882

www.ehedg.org



EHEDG Certification

EHEDG offers two main types of equipment certification:

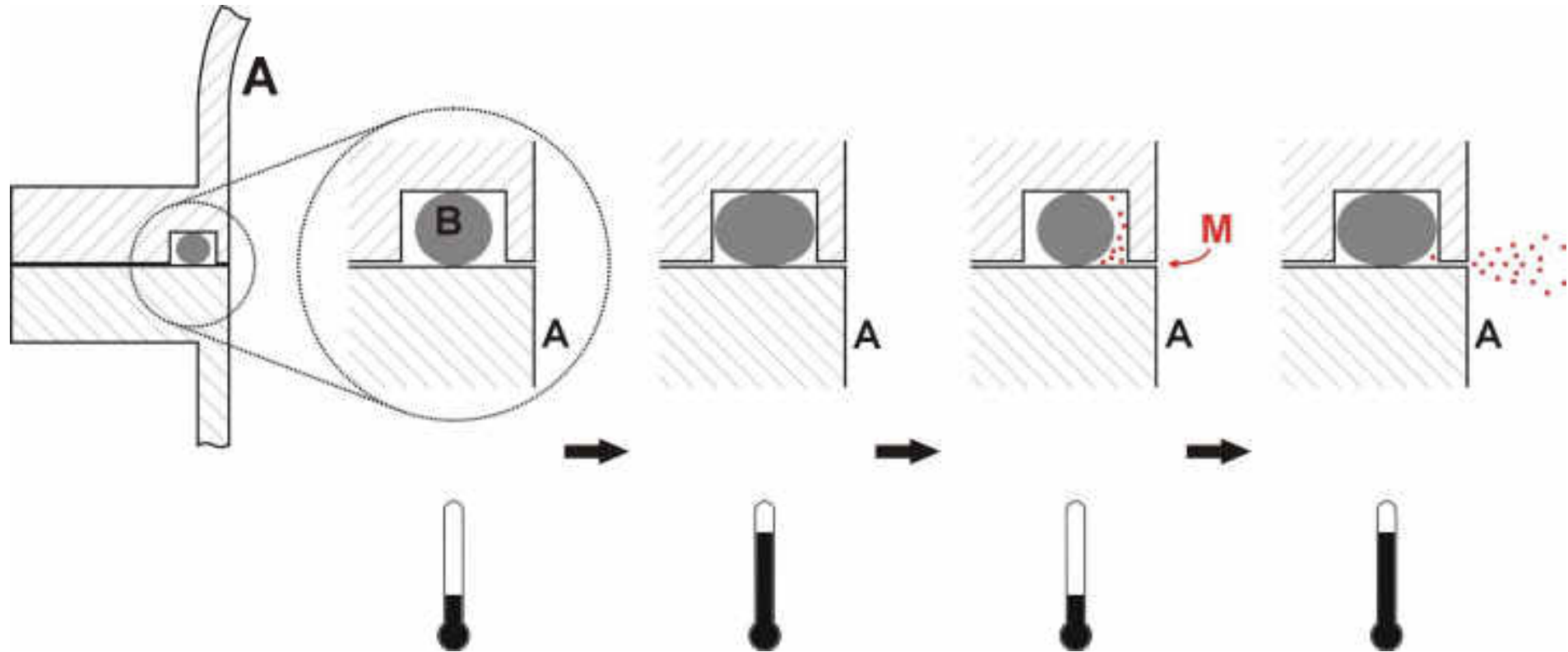
Type **EL** for **E**quipment cleaned with **L**iquids

Type **ED** for **E**quipment **D**ry cleaned only



- 1 Microbiologically safe continuous pasteurisation of liquid food (1992)
- 2 A method for assessing the in-place cleanability of food processing equipment (2007)
- 3 Microbiologically safe aseptic packing of food products (1993)
- 4 A method for the assessment of in-line pasteurisation of food processing equipment (1993)
- 5 A method for the assessment of in-line sterilisability of food processing equipment (2004)
- 6 The microbiologically safe continuous flow thermal sterilisation of liquid foods (1993)
- 7 A method for the assessment of bacteria-tightness of food processing equipment (2004)
- 8 Hygienic equipment design criteria (2004)
- 9 Welding stainless steel to meet hygienic requirements (1993)
- 10 Hygienic design of closed equipment for the processing of liquid food (2007)
- 11 Hygienic packing of food products (1993)
- 12 The continuous or semi-continuous flow thermal treatment of particulate foods (1994)
- 13 Hygienic design of equipment for open processing (2004)
- 14 Hygienic design of valves for food processing (2004)
- 15 A method for the assessment of in-place cleanability of moderately sized food processing equipment (1997)
- 16 Hygienic pipe couplings (1997)
- 17 Hygienic design of pumps, homogenizers and dampening devices (2013)
- 18 Chemical Treatment of Stainless Steel Surfaces (2014)
- 19 A method for assessing the bacterial impermeability of hydrophobic membrane filters (2012)
- 20 Hygienic design and safe use of double-seat mix-proof valves (2000)
- 21 Challenge tests for the evaluation of the hygienic characteristics of packing machines for liquid and semi-liquid products (2000)
- 22 General hygienic design criteria for the safe processing of dry particulate materials (2014)

- 23 Production and use of food-grade lubricants, Part 1 and 2 (2009)
- 24 The prevention and control of Legionella spp. (incl legionnaires disease) in food factories (2002)
- 25 Design of mechanical seals for hygienic and aseptic applications (2002)
- 26 Hygienic engineering of plants for the processing of dry particulate materials (2003)
- 27 Safe storage and distribution of water in food factories (2004)
- 28 Safe and hygienic water treatment in food factories (2004)
- 29 Hygienic design of packing systems for solid foodstuffs (2004)
- 30 Guidelines on air handling in the food industry (2005)
- 31 Hygienic engineering of fluid bed and spray dryer plants (2005)
- 32 Materials of construction for equipment in contact with food (2005)
- 33 Hygienic engineering of discharging systems for dry particulate materials (2005)
- 34 Integration of hygienic and aseptic systems (2006)
- 35 Hygienic welding of stainless steel tubing in the food processing industry (2006)
- 36 Hygienic Engineering of Transfer Systems for Dry Particulate Materials (2007)
- 37 Hygienic Design and Application of Sensors (2007)
- 38 Hygienic Engineering of Rotary Valves in Process Lines for Dry Particulate Materials (2007)
- 39 Design Principles for Equipment and Process Areas for Aseptic Food Manufacturing (2009)
- 40 Hygienic Engineering of Valves in Process Lines for Dry Particulate Materials (2010)
- 41 Hygienic Engineering of Diverter Valves in Process Lines for Dry Particulate Materials (2011)
- 42 Disc Stack Centrifuges - Design and Cleanability (2013)
- 43 Hygienic Design of Belt Conveyors for the Food Industry (2015)
- 44 Hygienic Design Principles for Food Factories (2014)



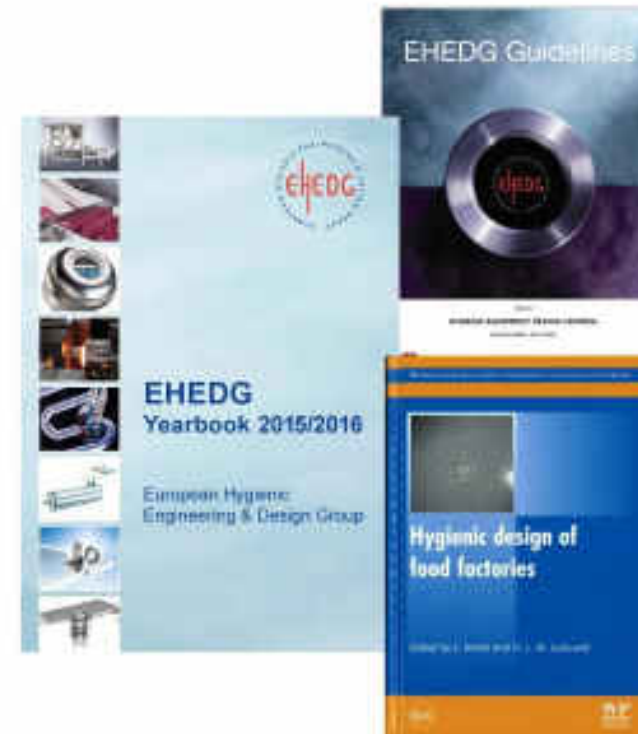
Yearbook – new issue 2015/2016

Handbooks:

- *Hygienic Design of Food Factories**
- *Hygiene in Food Processing **
- *Handbook of Hygiene Control in the Food Industry **

Articles in technical press and

Selected journals: *New Food, Food Engineering, Journal on Hygienic Engineering & Design and others*



Regional Sections

**EHEDG is growing world wide and has members
in 55 countries today**

Existing Regional Sections (24):

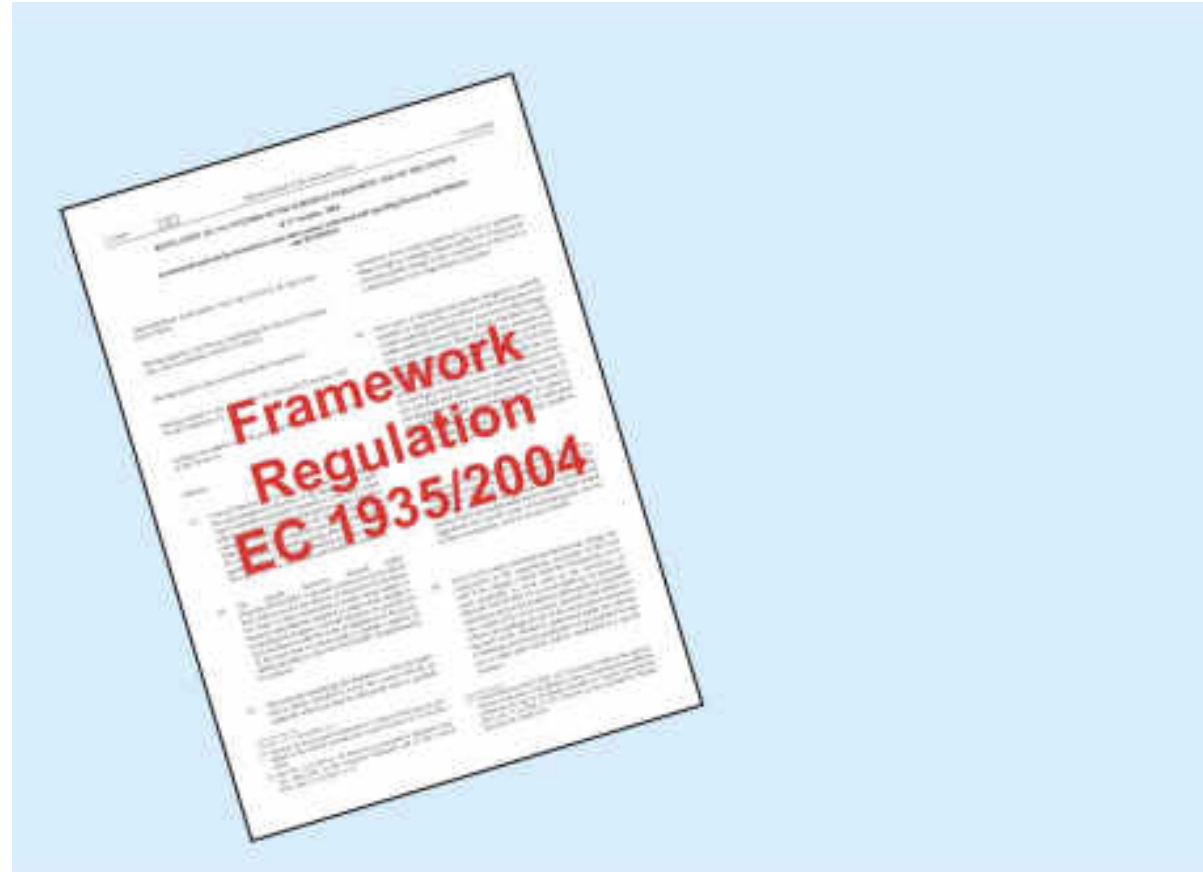
Armenia, Belgium, Croatia, Czech Republic, Denmark, Germany, France, India, Italy, Japan, Lithuania, Macedonia, Mexico, Netherlands, Nordic (FI, S, NO), Poland, Russia, Serbia, Spain, Switzerland, Taiwan, Thailand, Turkey, Ukraine, U.K., Uruguay



Coming soon:

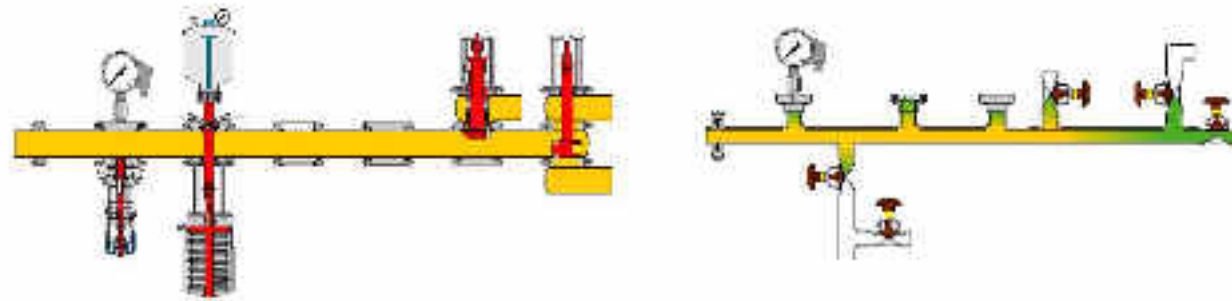
Argentina, Brazil, China





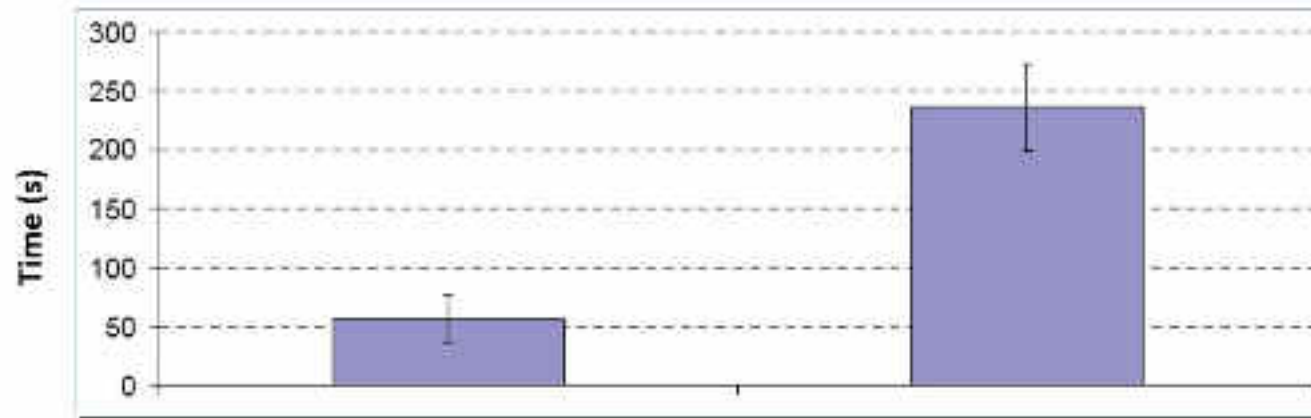






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ConAgra to pay \$11.2M to settle salmonella criminal case



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 How ... the U.S. government ...

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Peanut Company Owner Faces Life Sentence For Salmonella Outbreak

POSTED 11:43 AM, SEPTEMBER 21, 2014 BY CNN WIRE

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(CNN) — Even after his mom died, Jeff Almer bought a Mother's Day card splashed in pastels and bearing the sweetest of words. He tucked a photo of his mother inside the card and addressed it to Stewart Parnell, the man who owned and ran Peanut Corporation of America.



Courtesy: W&A Confections

Inside, Almer wrote: I did not know where to send this to since my mother is no longer alive, so I am sending it to you, the person who is responsible for where she is today.

Shirley Mae Almer, 72, survived lung cancer and a brain tumor, but not one of America's favorite foods: peanut butter. Parnell's company, PCA, had manufactured the creamy stuff that she slathered on her toast at a nursing home in Minnesota. It was laced with deadly salmonella.

Almer died a few days before Christmas in 2008. Her own card the Mother's Day card to

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What is hygienic design and why is it important?

Eric Partington

Chairman of the European Hygienic Engineering and Design Group's
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