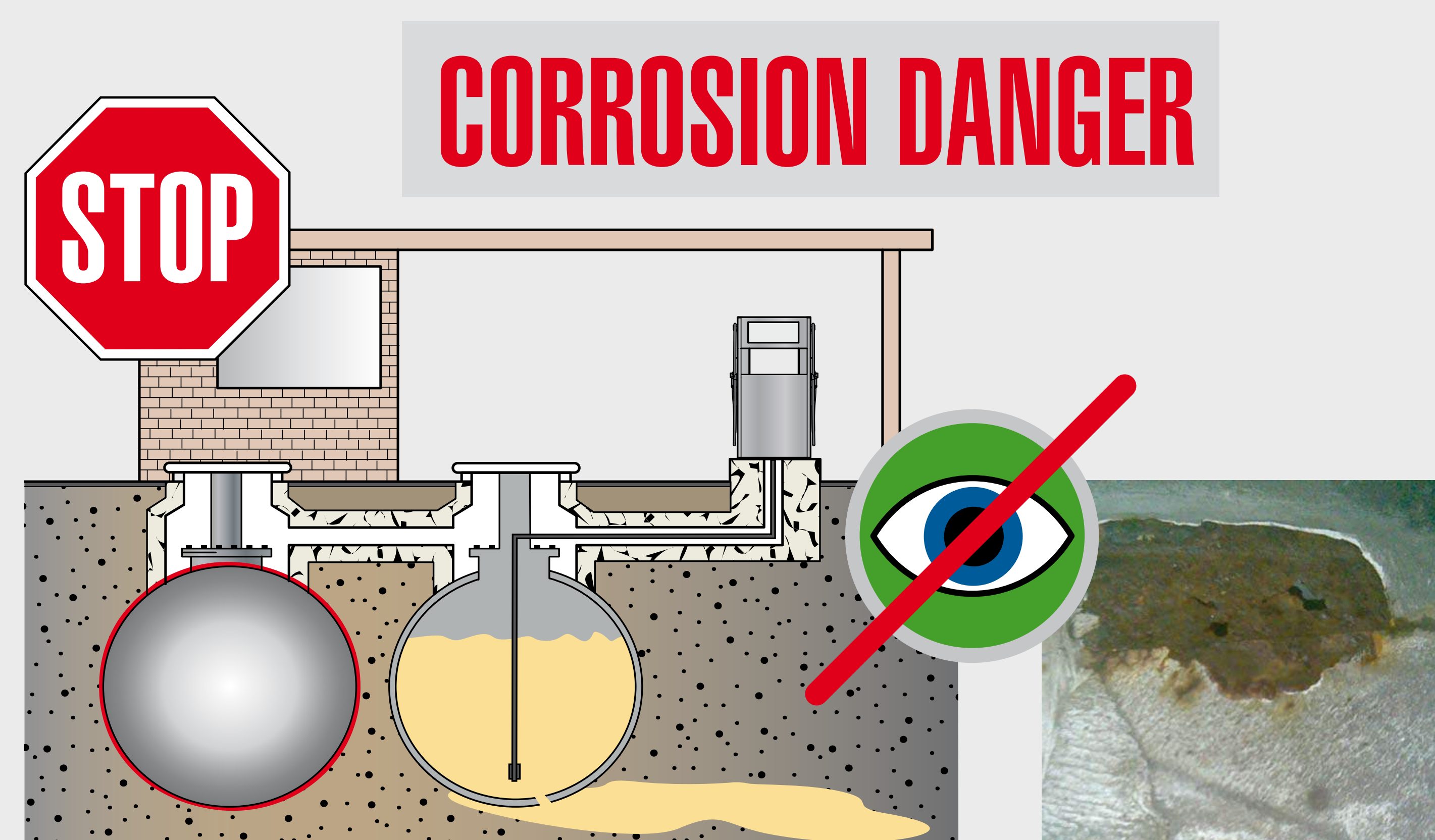


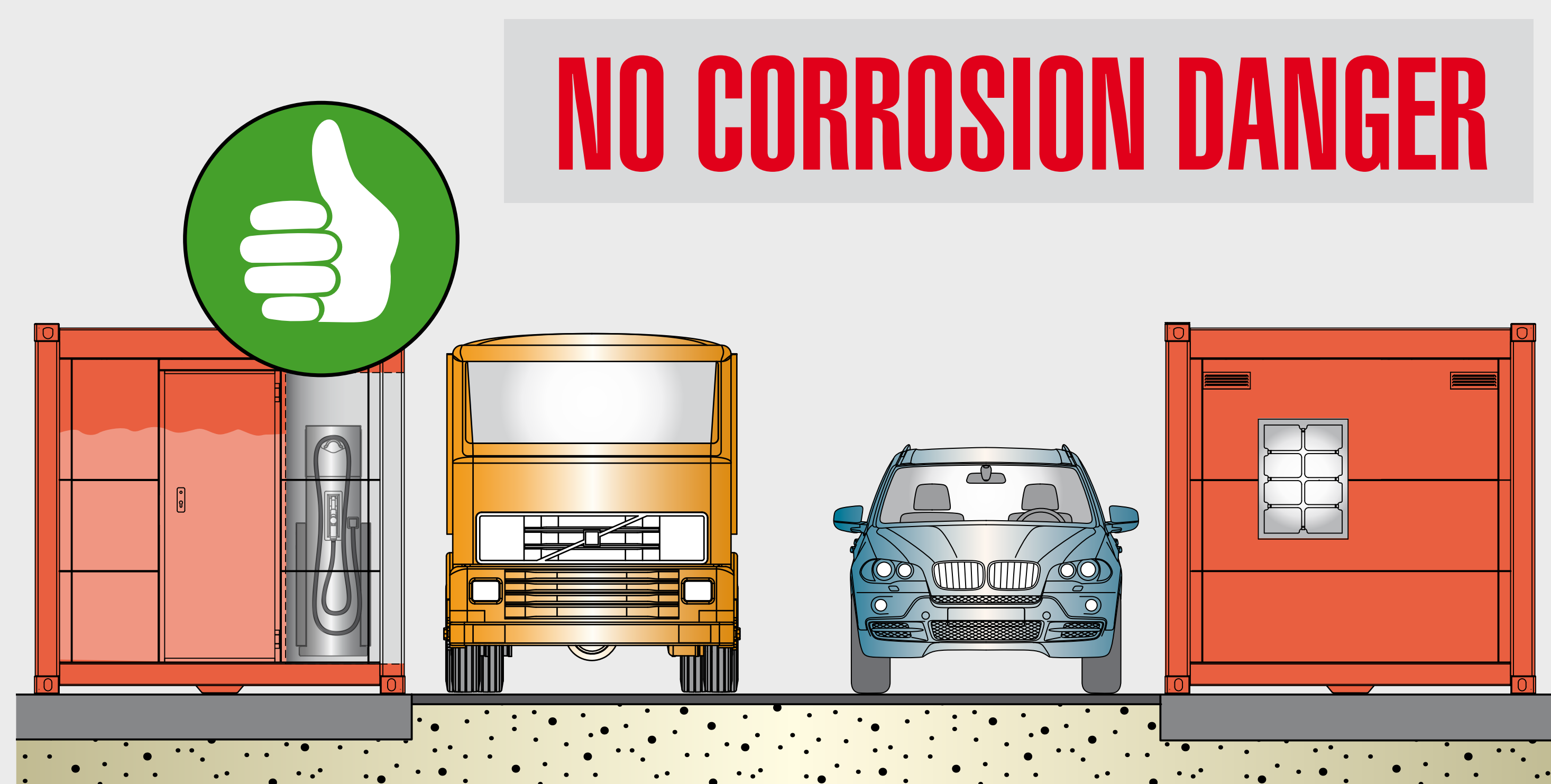
FILLINGSTATION SAFETY CONCEPT

against tank leaks

Container-gas stations

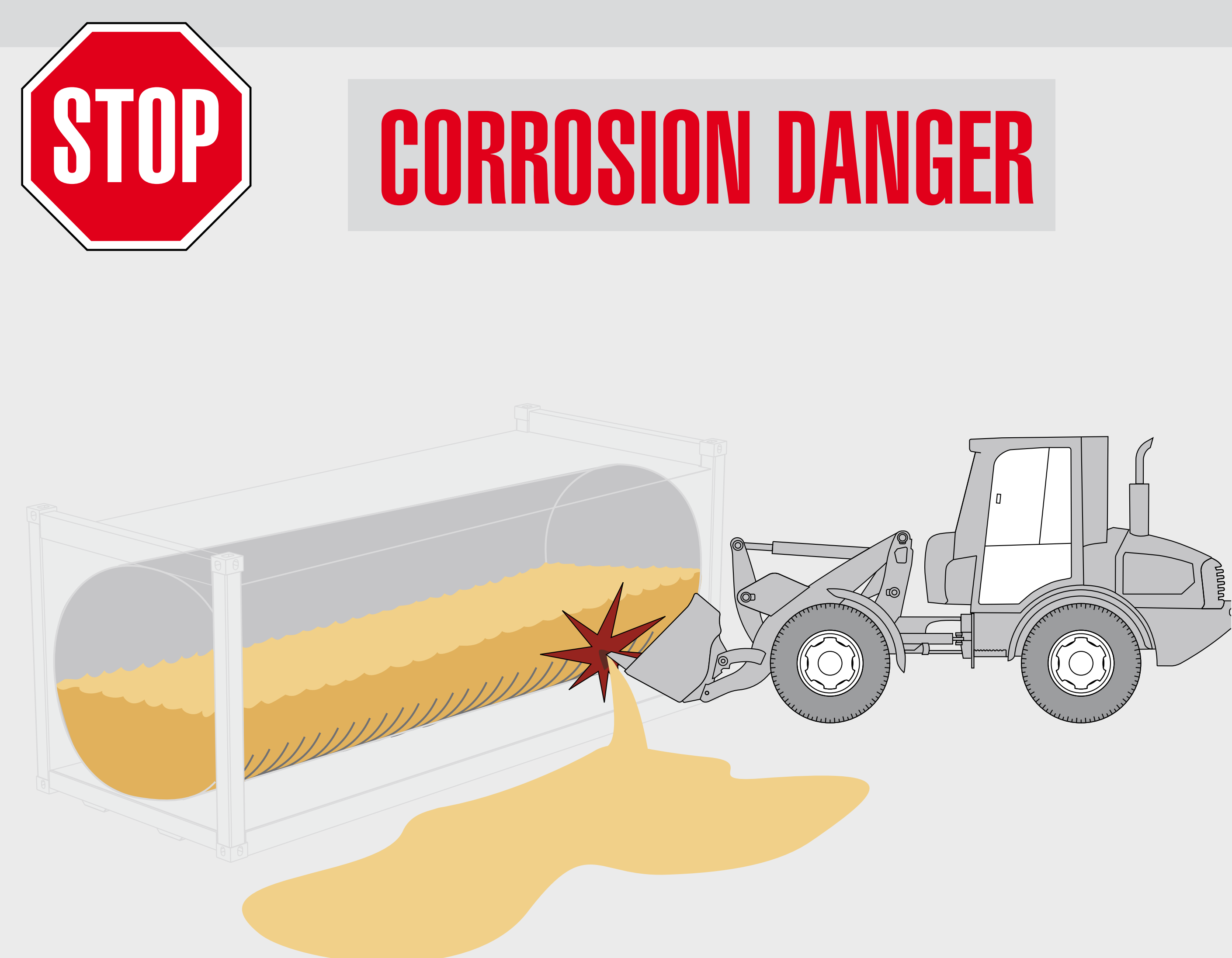


Traditional gas station system
no inspection of corrosion risks from outside
leakage danger by external corrosion

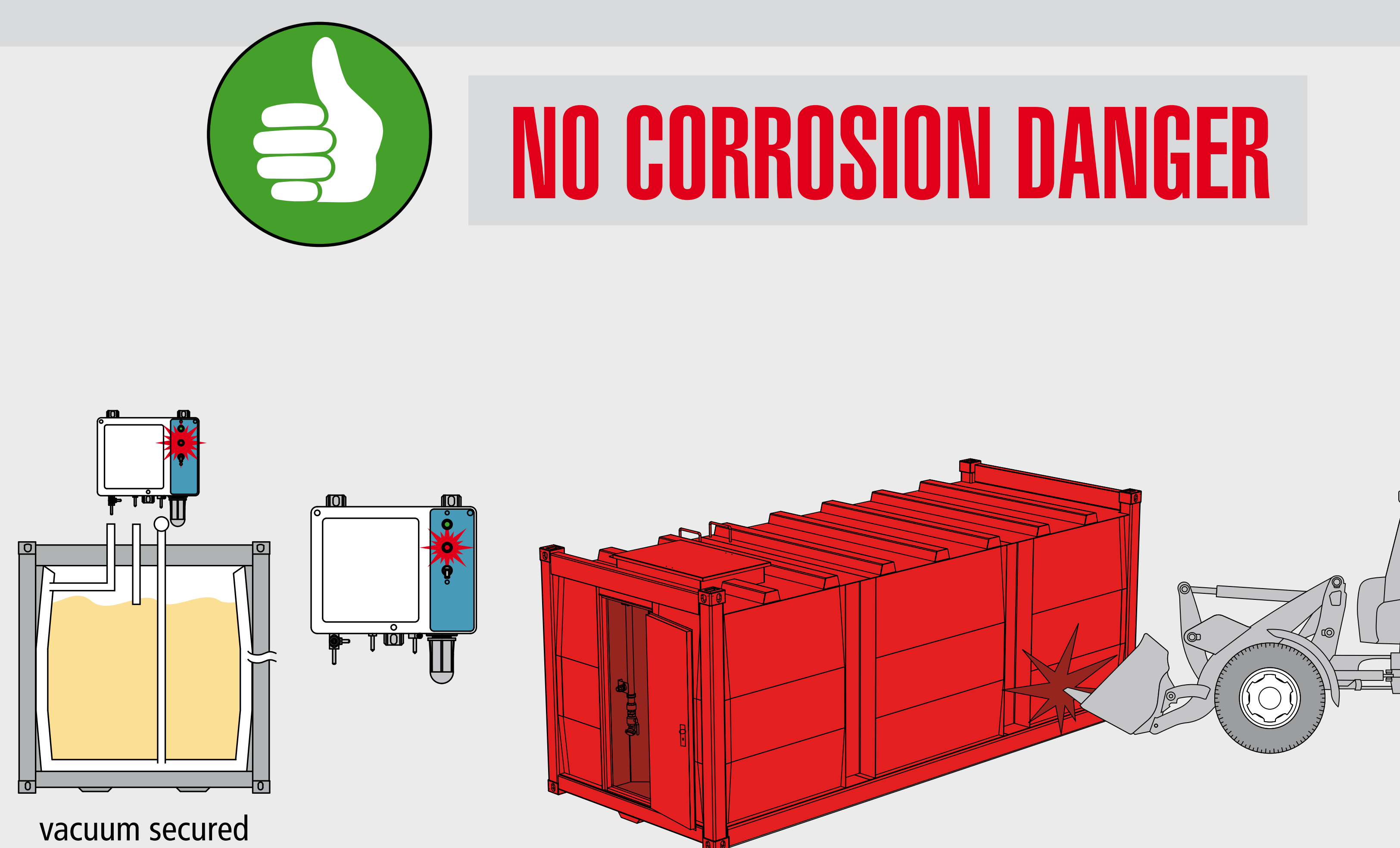


Modern gas station system
inspection from outside – no corrosion danger
no leakage danger by internal and external corrosion

Vakuum leak indicator



Traditional gas station with simple catch frame,
no exact alarm signal



Double walled tanks from Krampitz with vakuum leak detec-
tion are safe against leakage risks by internal and external
damage – intrinsically safe



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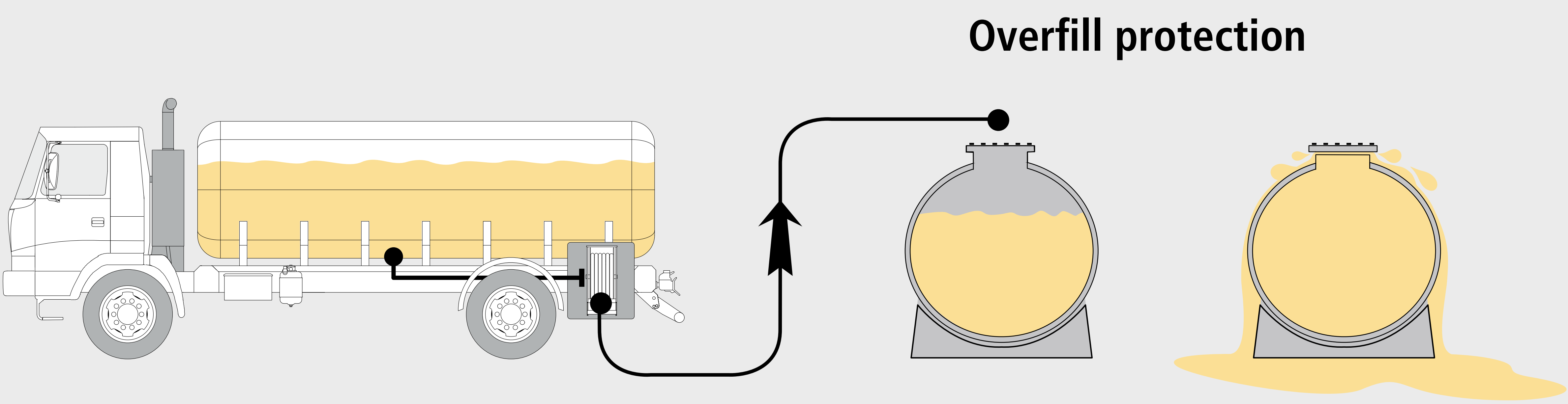
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FILLINGSTATION SAFETY CONCEPT

against overfilling of the tanks

Tank filling without overfilling safety



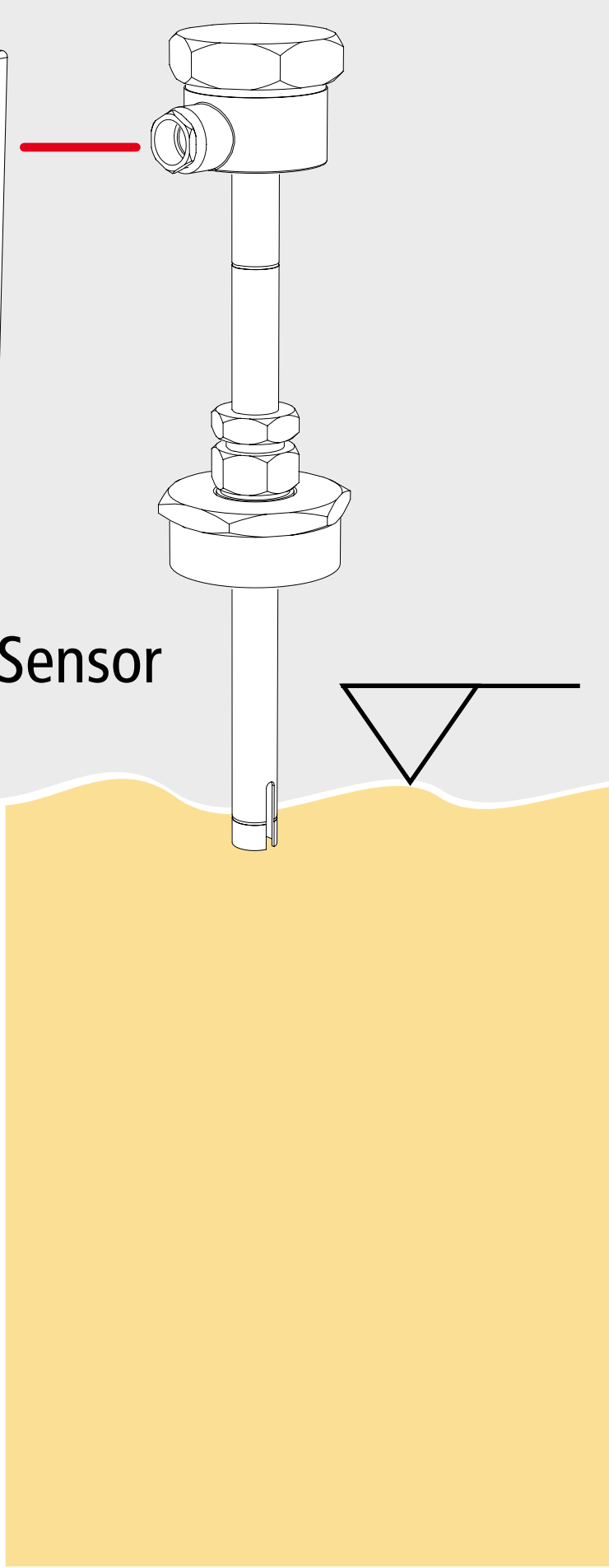
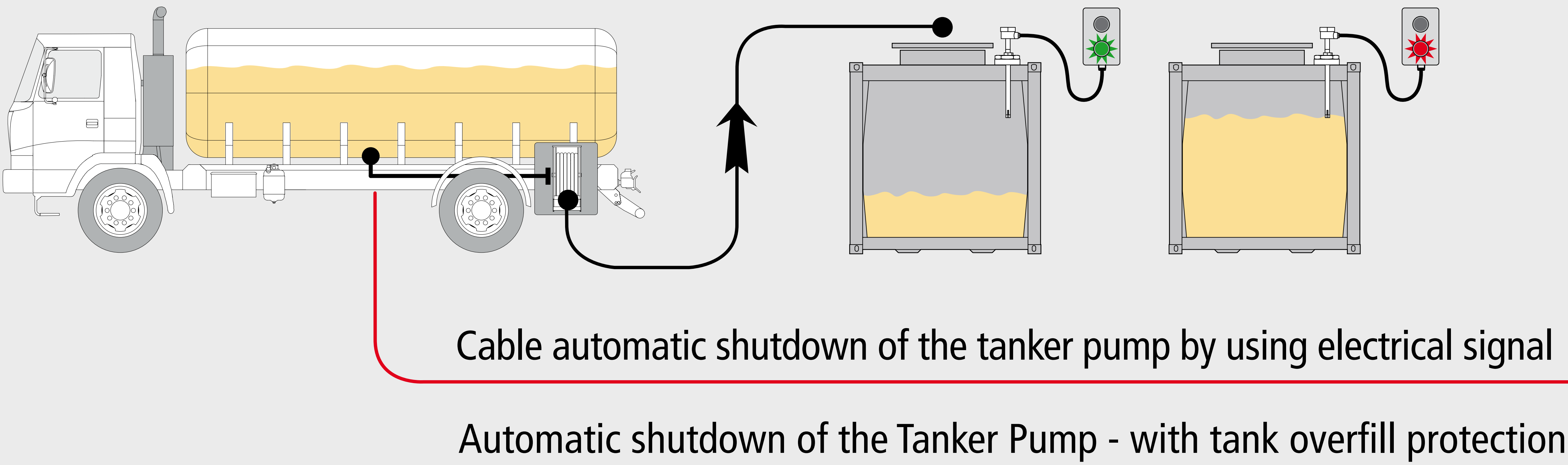
Risks of heavy environmental damages!

European Overfill Protection System



Tank filling with Overfill Protection

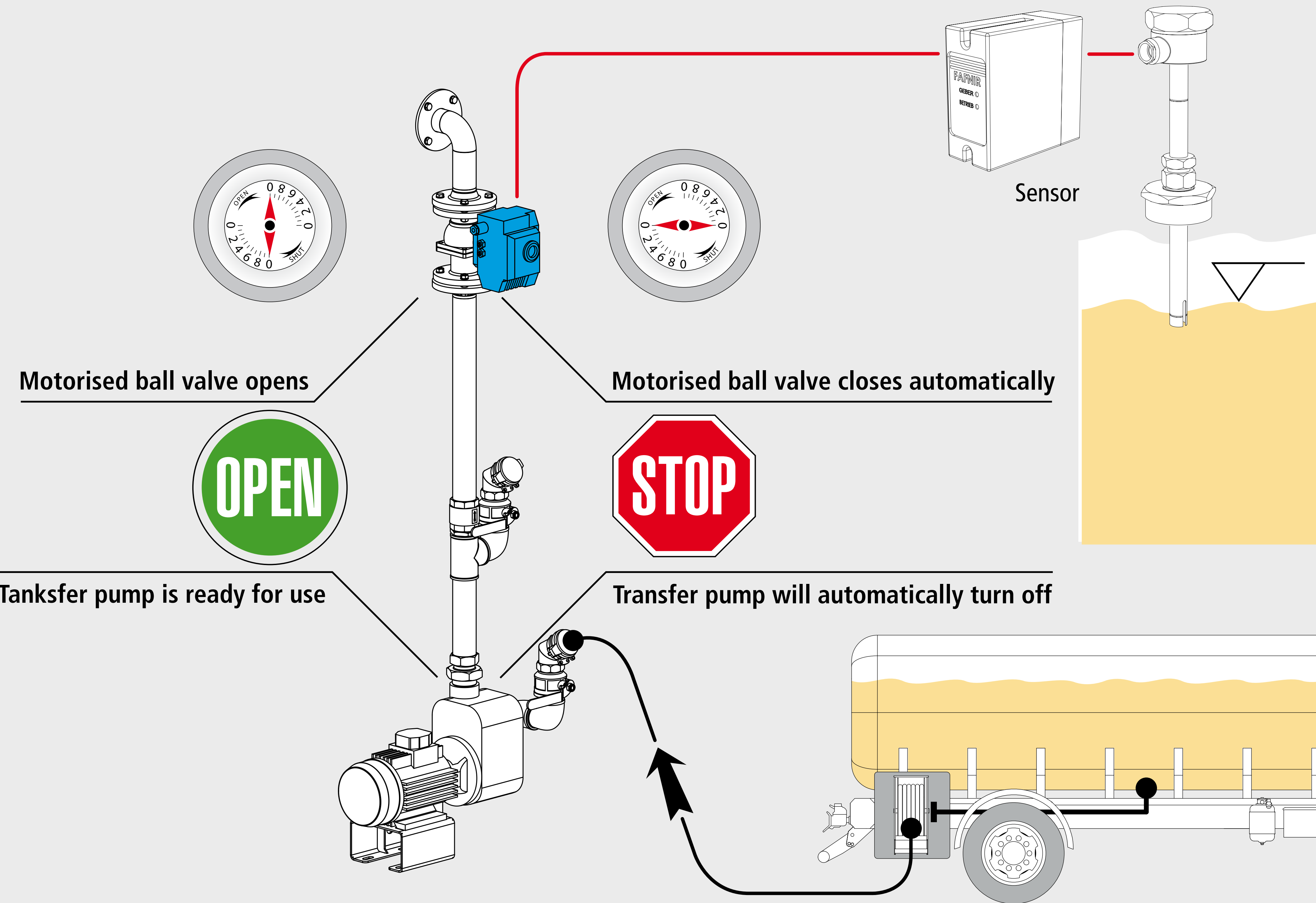
No Overfill risk



Global overfill protection system - with motorised ball valve



In appeal of the tank overfill, the motorised ball valve in the filling pipe closes automatically



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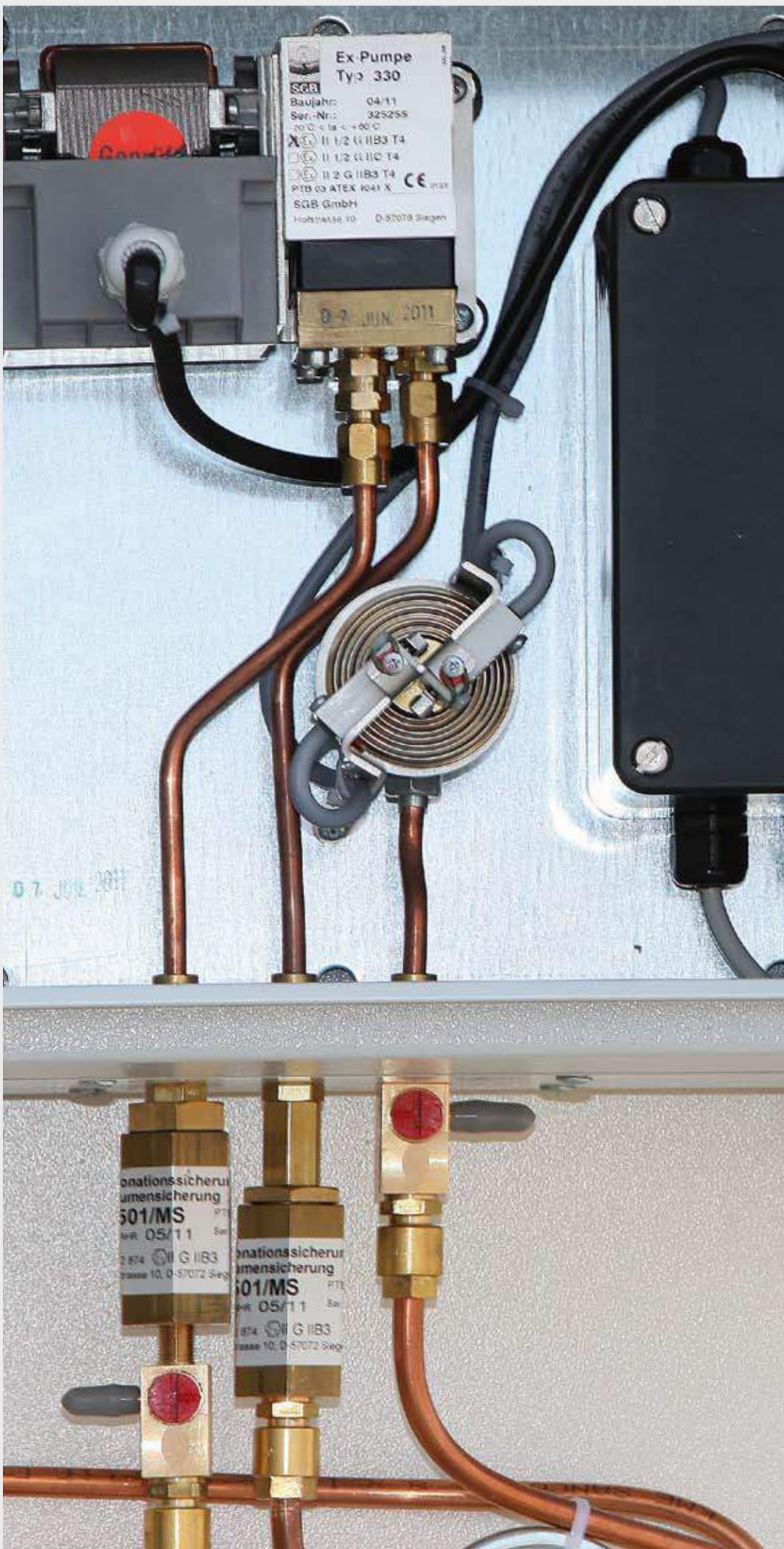
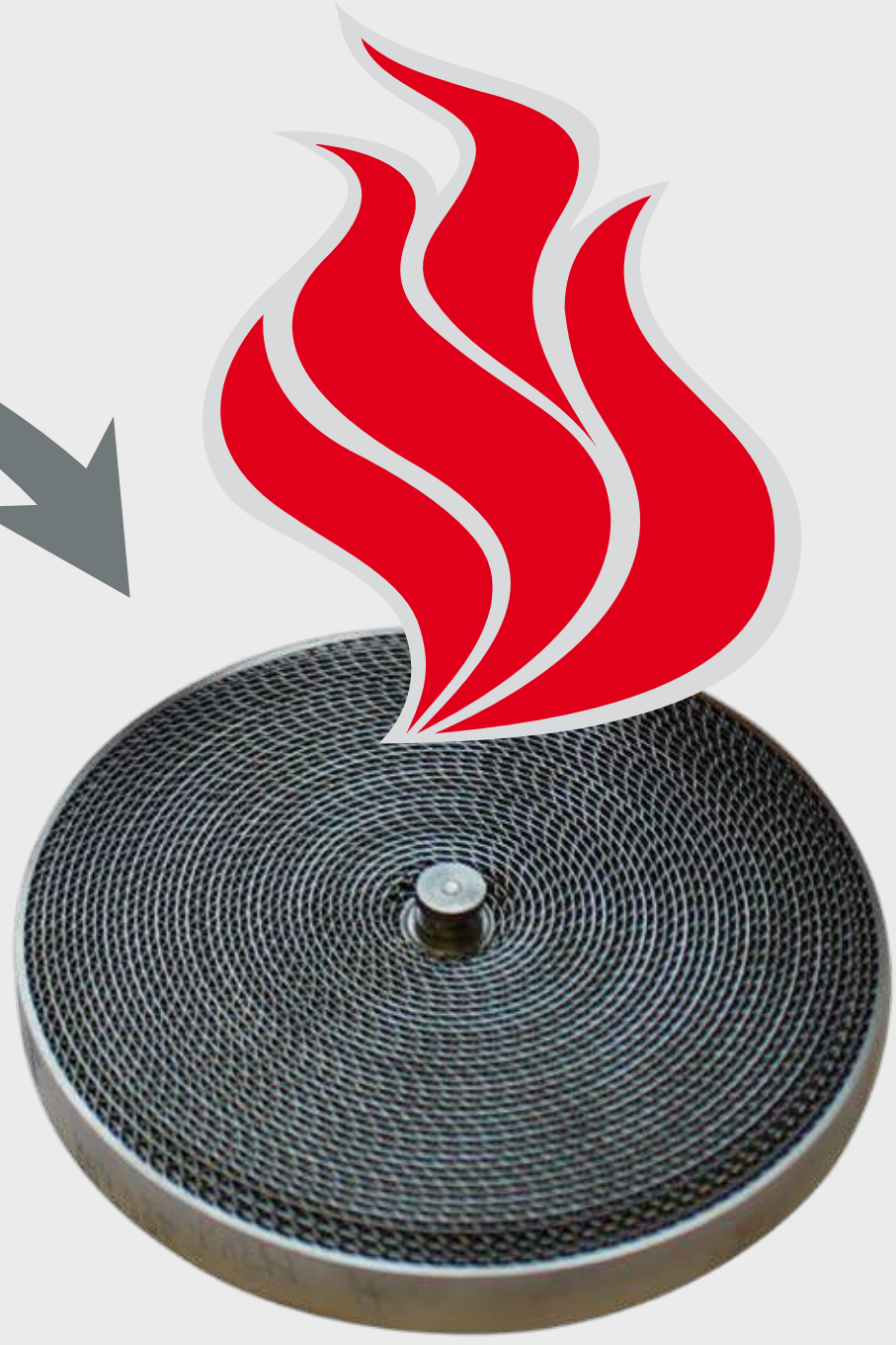
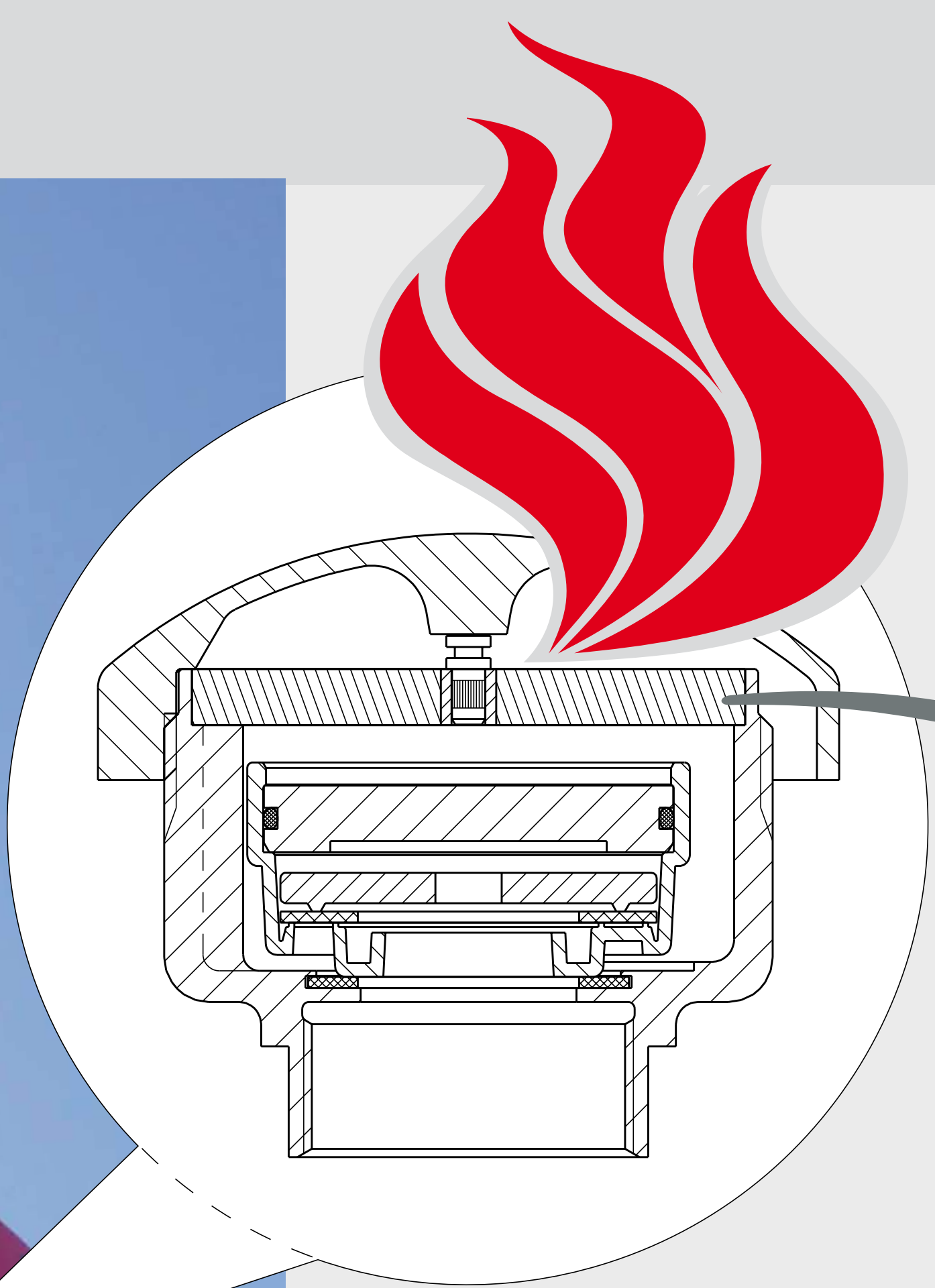
Against sweeping flames and sparks

Flame arrester

Funktion

The flame arrester in the pipe sections is particular to prevent sweeping of flames and avoid sparks into other sections of the tank.

By a flame arrester (clearance < 2mm) makes sure, that the flames not move through.

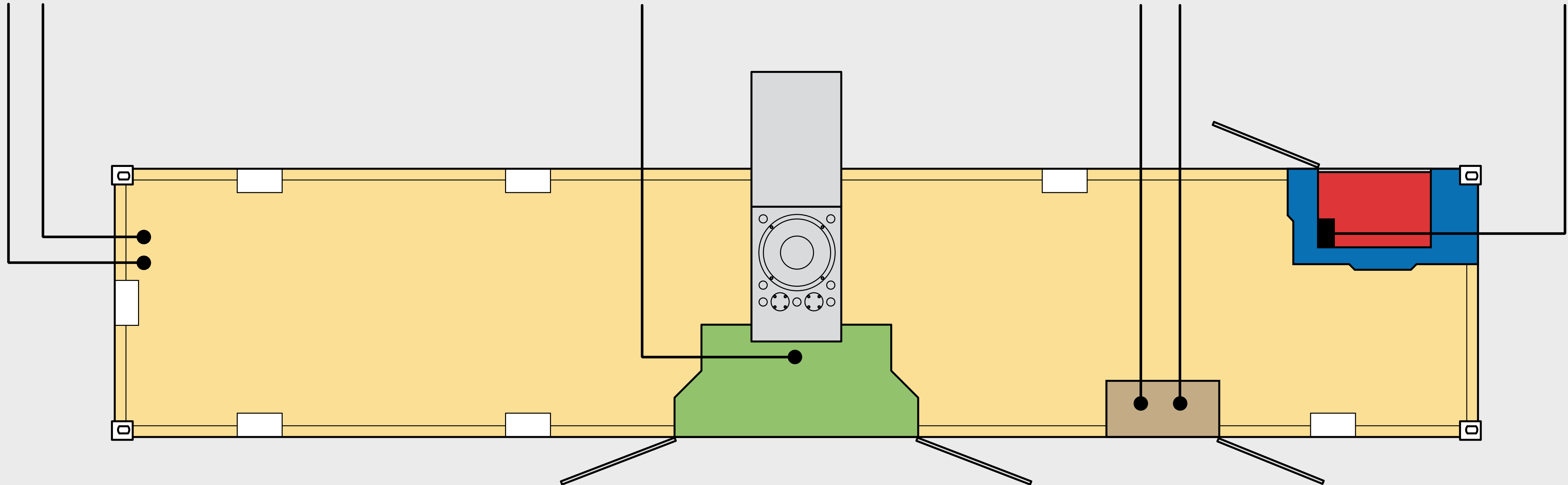


flame arresters with ventilation pipe

flame arresters in dispensing niche

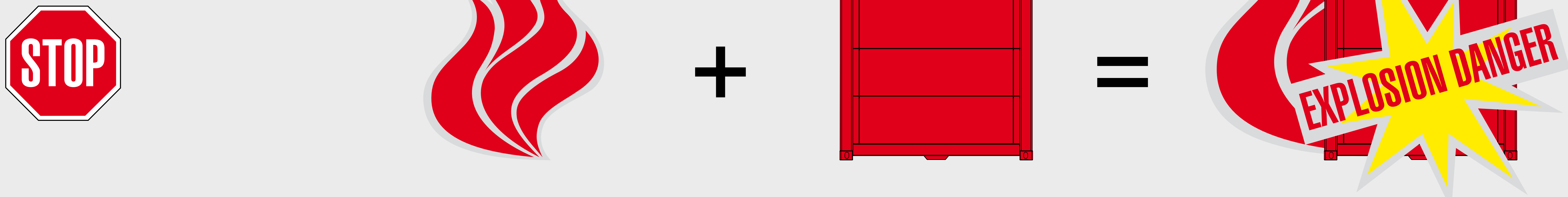
flame arresters in transfer niche

flamme arrester for leak detection

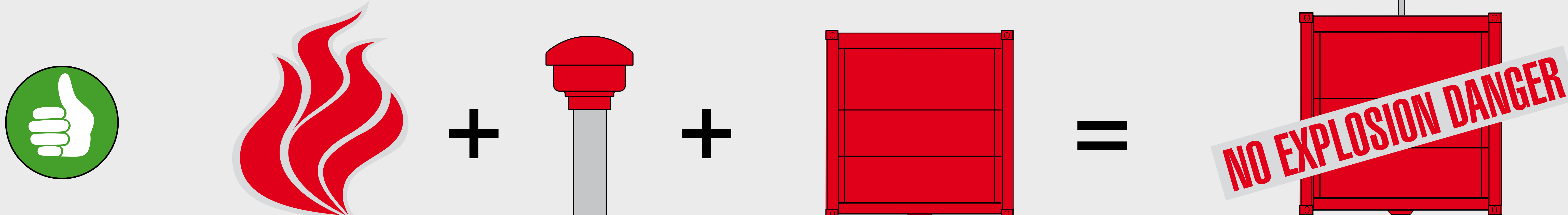


Operation with petrol and kersosine – Explosion danger

Without flame arresters



With flame arresters



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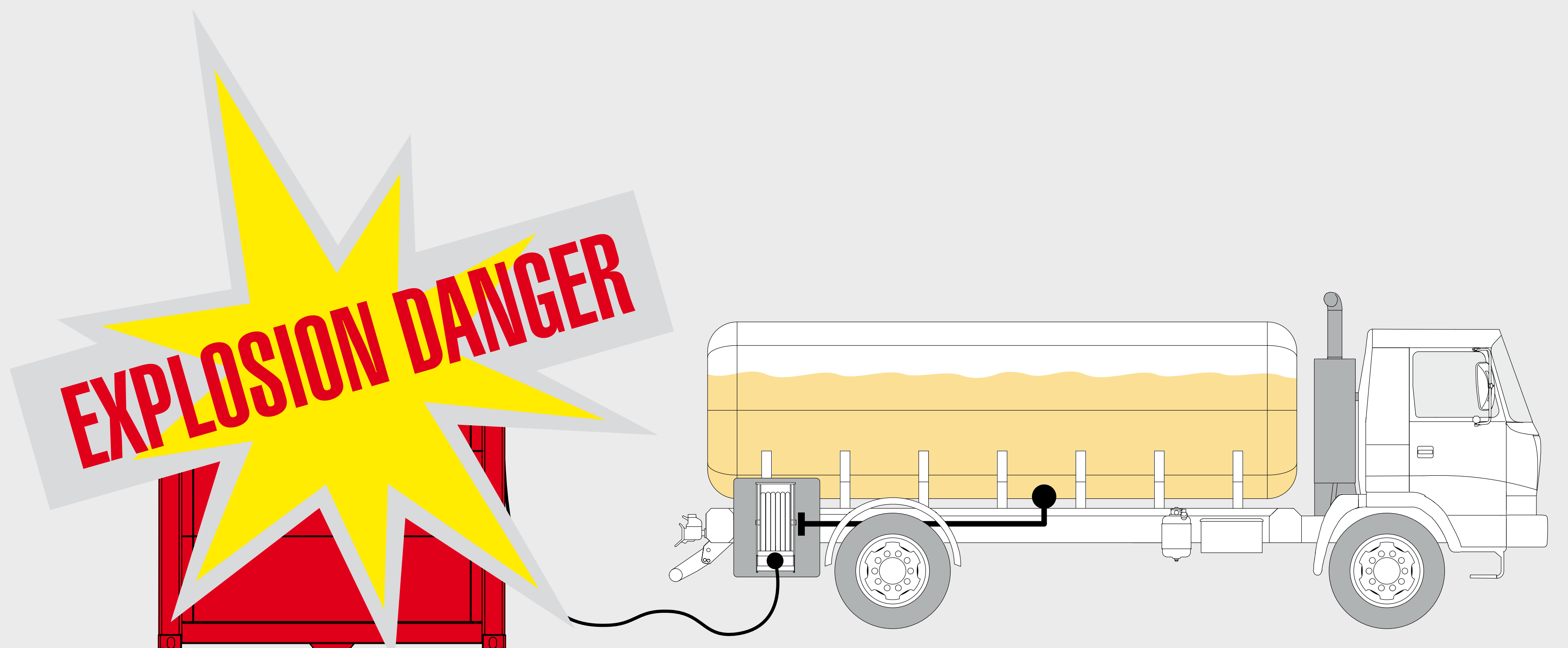
Potential Equalisation and lightning protection

Potential Equalisation



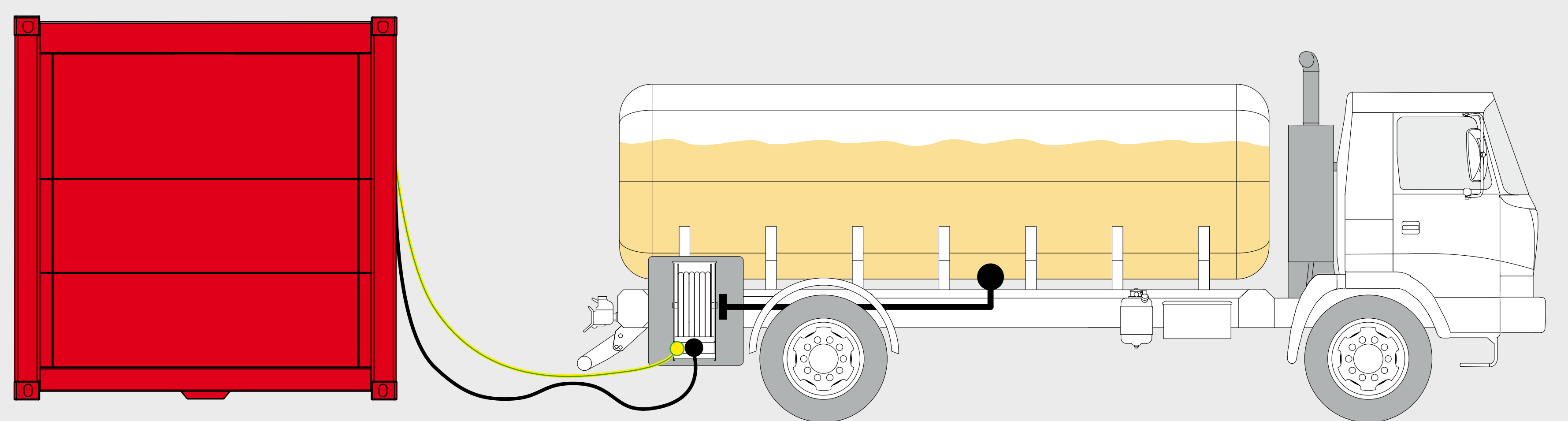
Without potential equalisation cable drum

Different electric potentials of the tank truck and the filling stations could cause sparking and arcing. – Explosion danger.

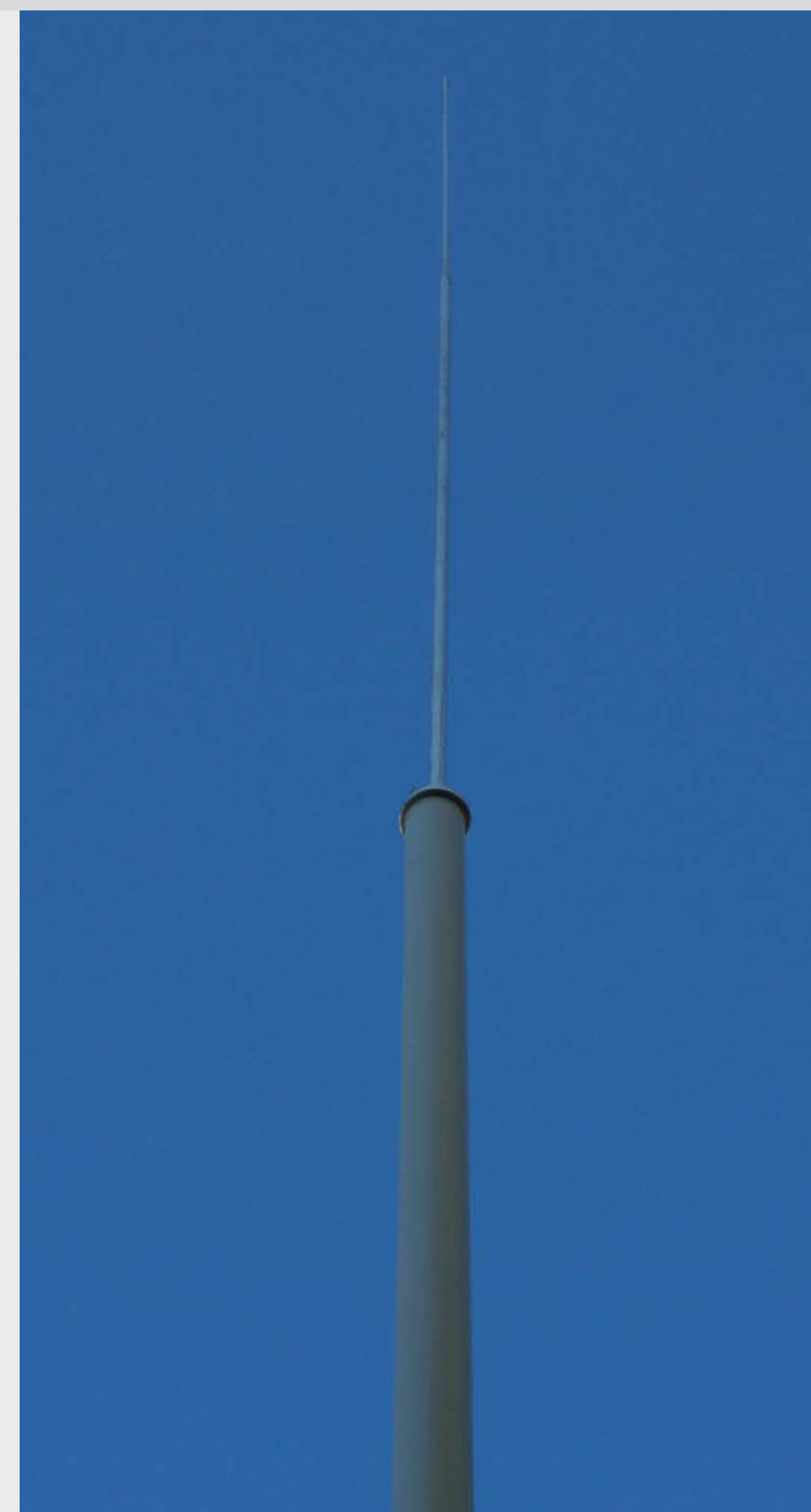
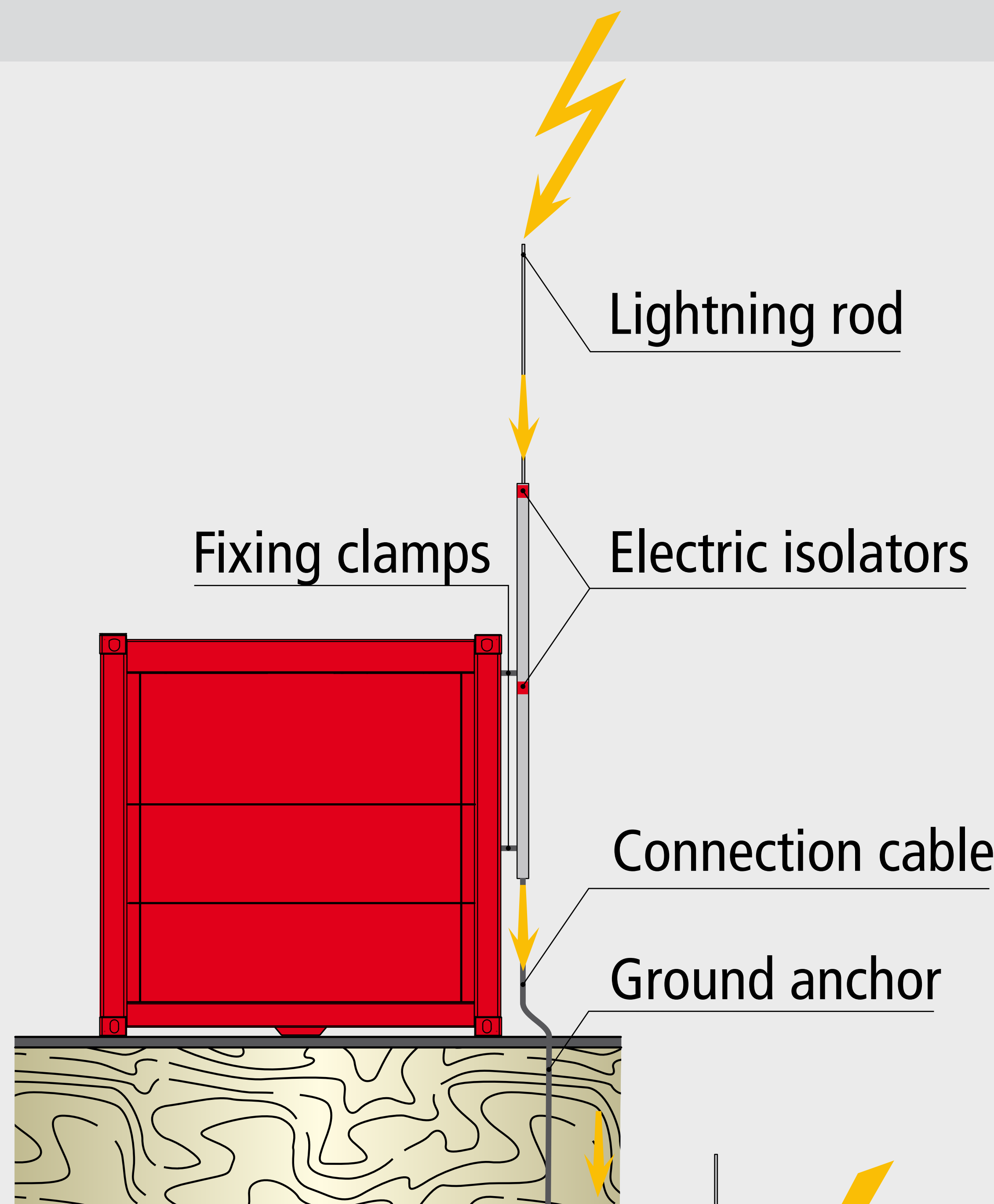


With potential equalisation cable drum

With equipment of a potential equalisation cable drum in the transfer niche, the cable connects tank truck and filling station. Thereby results a consistent electric potential.

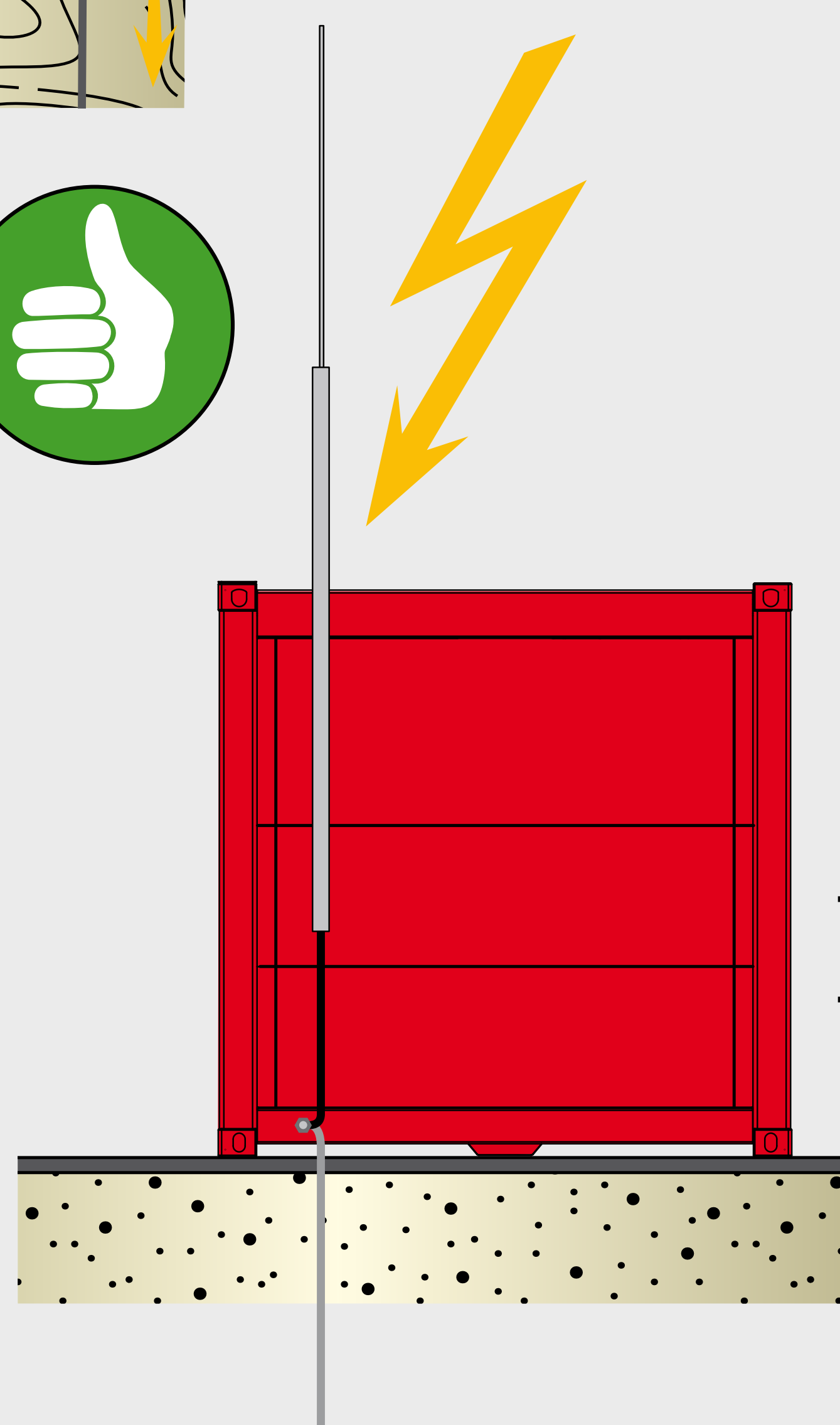


Lightning protection



EXPLOSION DANGER

The tank has no lightning protection without assured system and arresters.



Lightning protection of the tank by calculated protection System with arresters

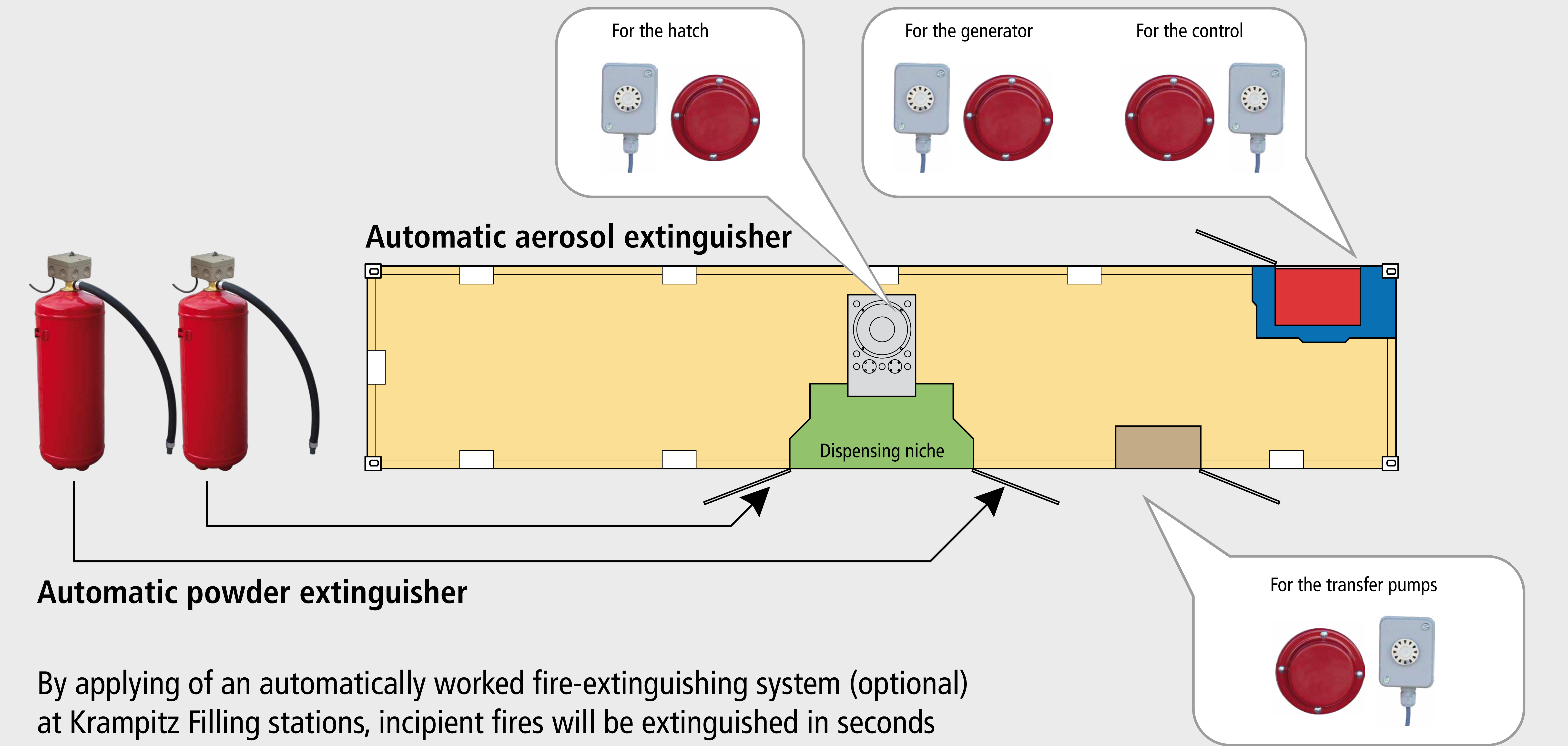
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FILLINGSTATION SAFETY CONCEPT

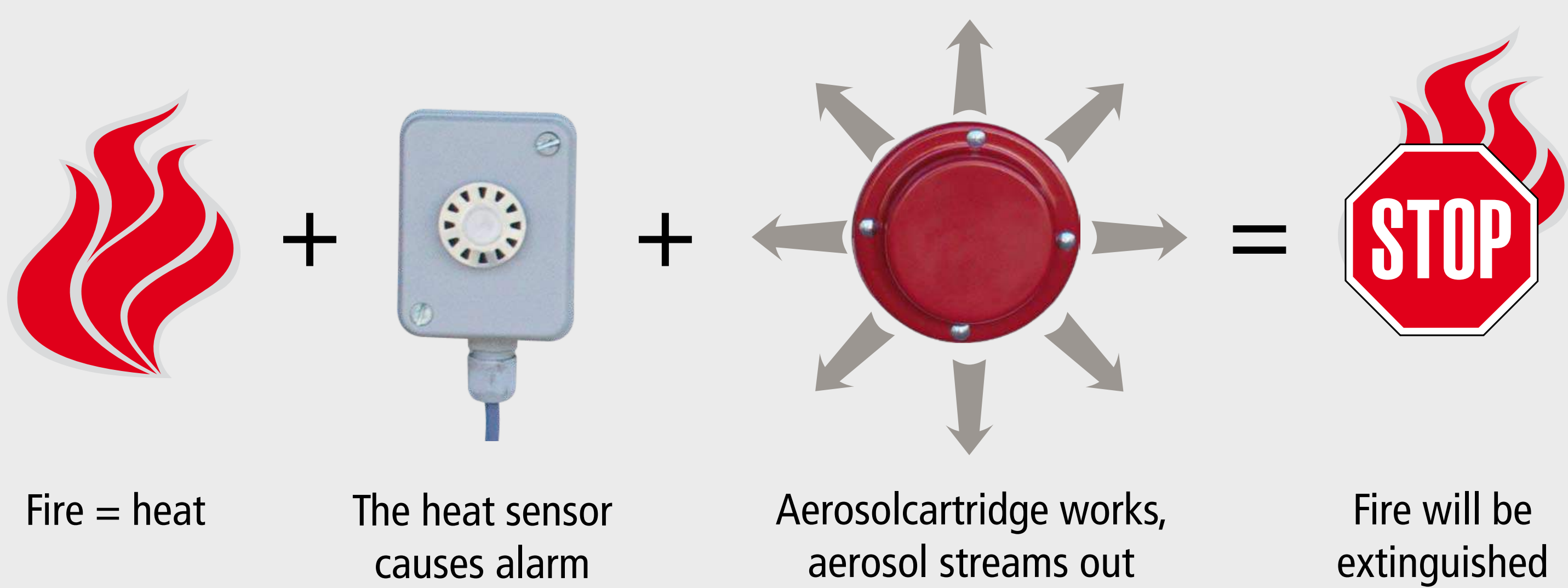
Protection against fire by automatic fire-extinguishing System



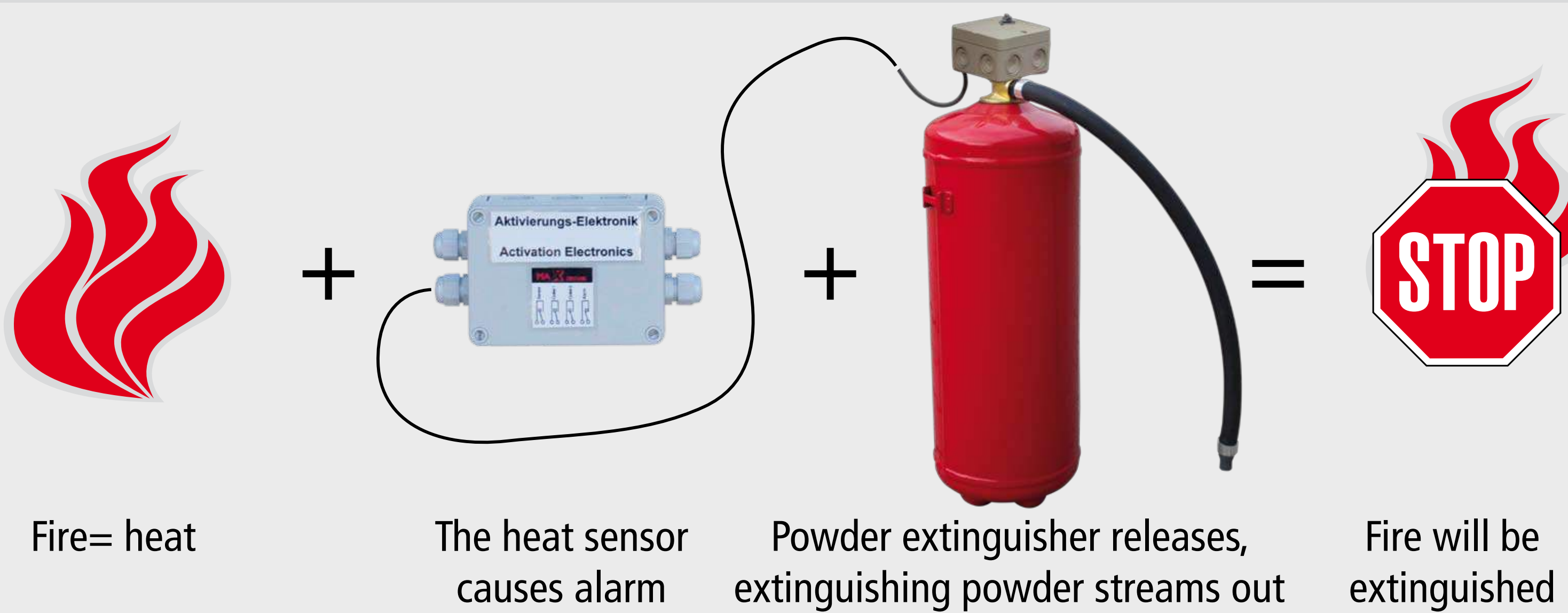
Human error or technical failure could cause fire at filling stations.



Function of aerosol extinguisher



Function of the power extinguisher



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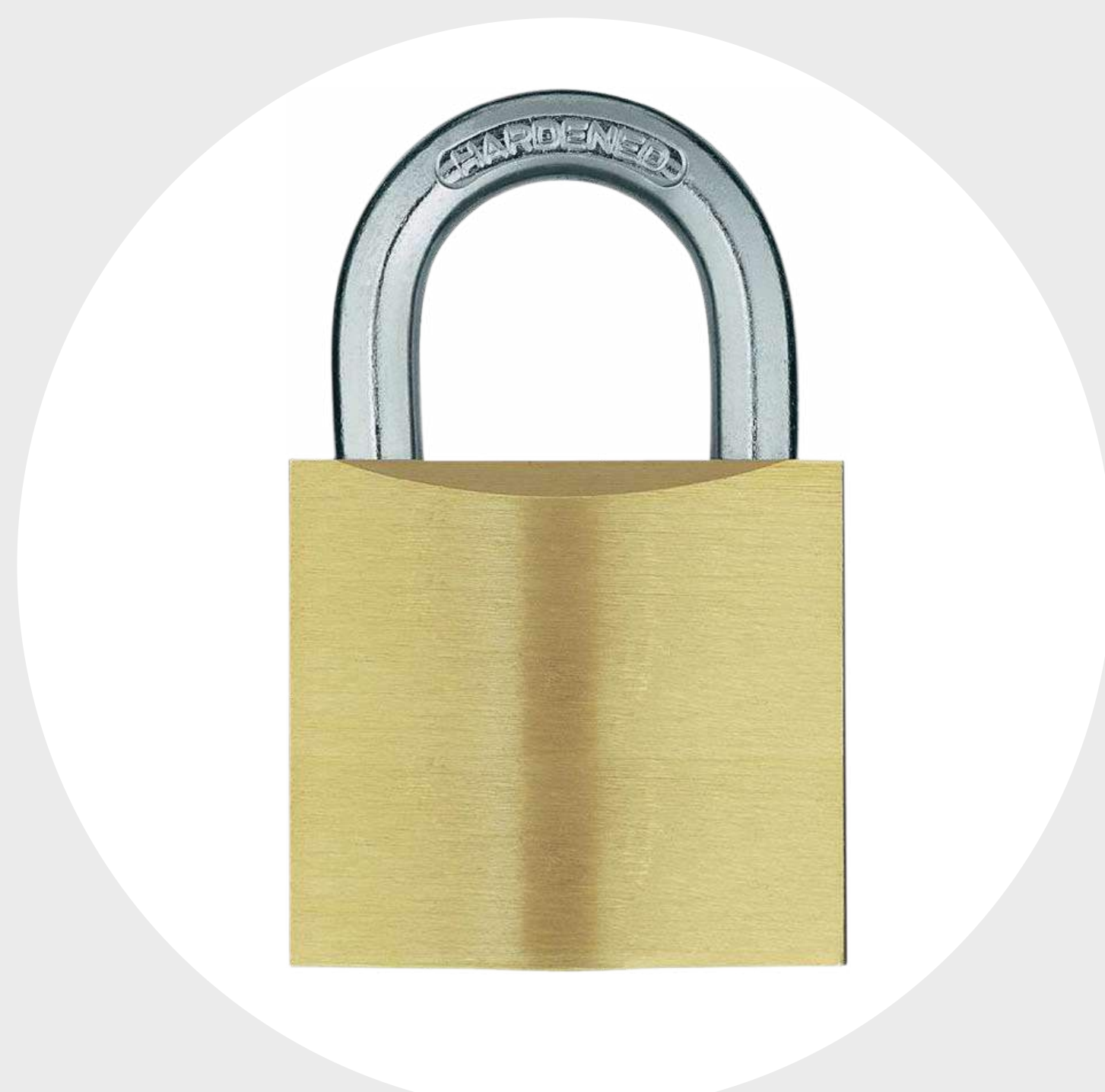
Burglary Prevention Device – Interlocking System



One key für all doors



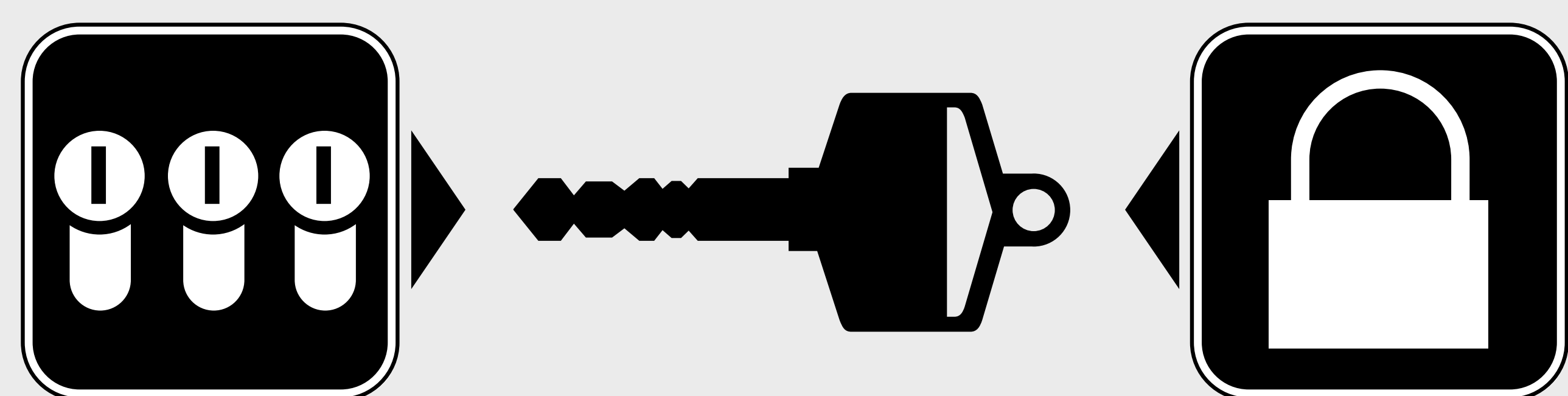
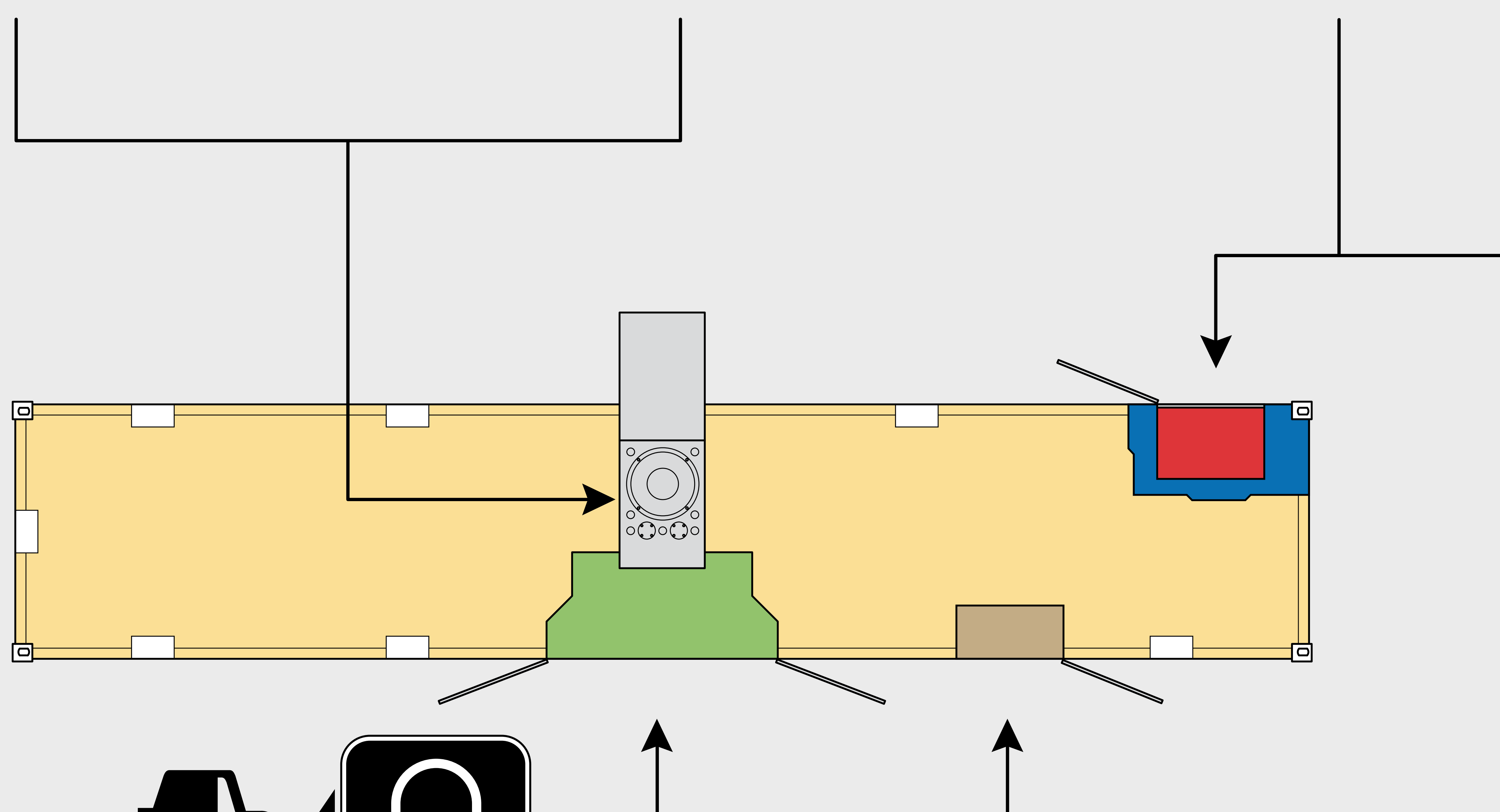
Transport locking device
for hatch item



Standardschloss für Haubenelement
Standard Lock for hatch item



Cylinder Locking
System

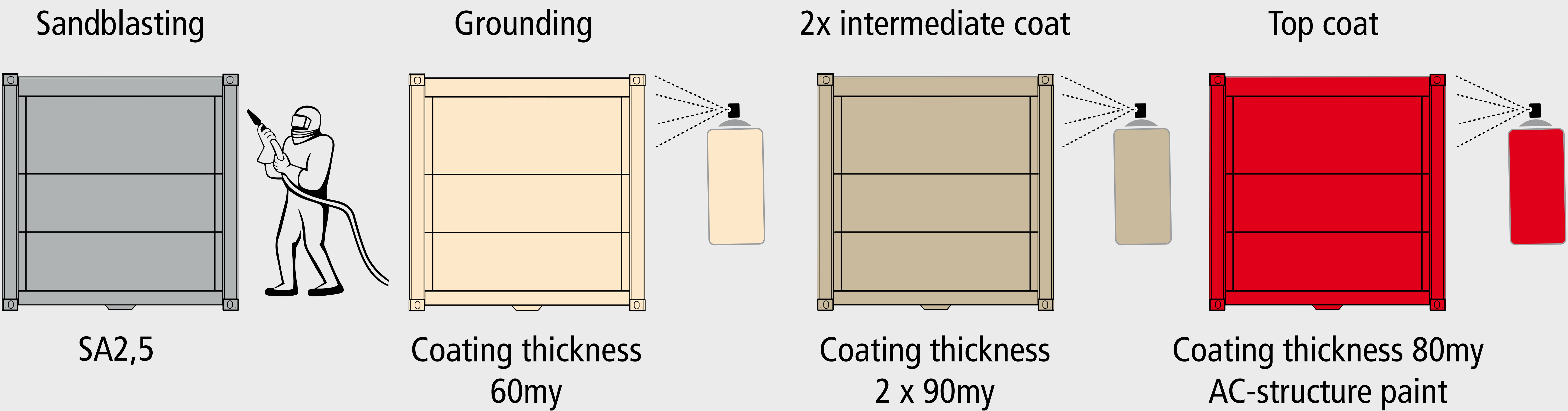


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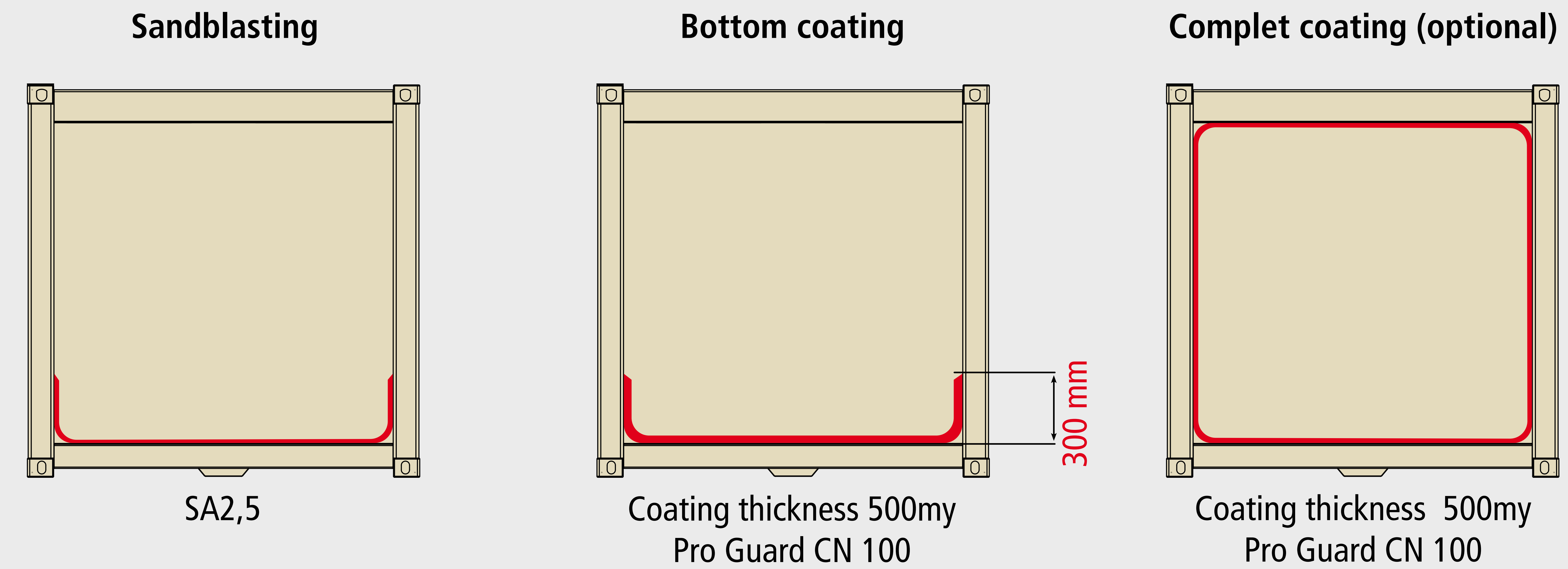
FILLINGSTATION SAFETY CONCEPT

Corrosion Protection

Corrosion protection condition outside



Standard Corrosion Protection inside Bottom pump



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