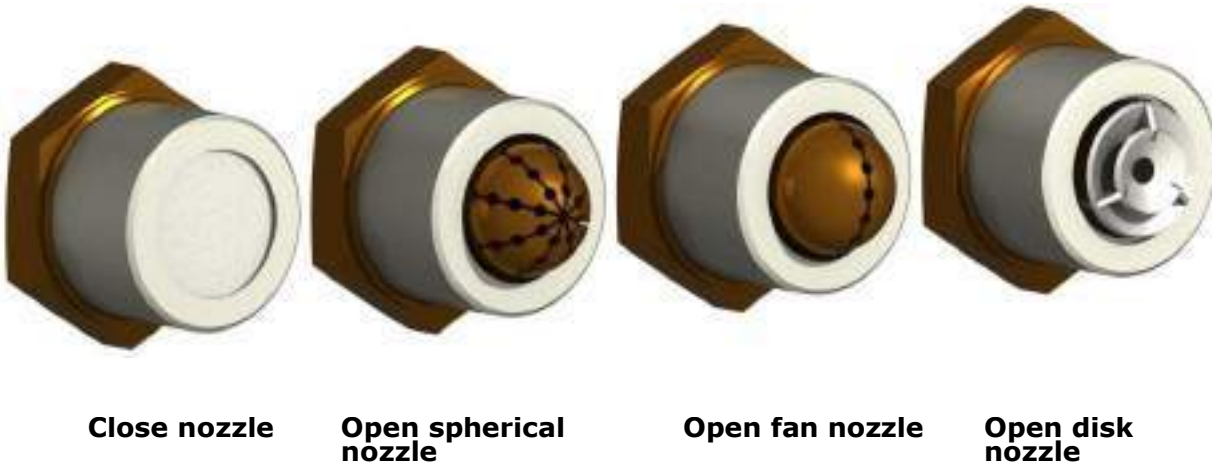


HRD NOZZLE DN 50

A nozzle used to insert the extinguishing powder into a protected device to suppress an explosion. Bullets are used to suppress the explosion, which extends the cone-shaped extinguishing medium.

In the HRD barrier to prevent explosion transmission, fan nozzles are used which extend the extinguishing medium in the form of a flat aperture (so-called fan). Plate nozzles are most commonly used for extinguishing on elevators.



.CLASSIFICATION	
Material of outer body	Stainless steel or carbon steel with anti-corrosion coating.
Material of nozzle	Bronze (spherical and fun nozzle) or stainless steel (disk nozzle).
Material of membrane	Stainless steel
Temperature resistant of nozzle	-20°C to +200°C

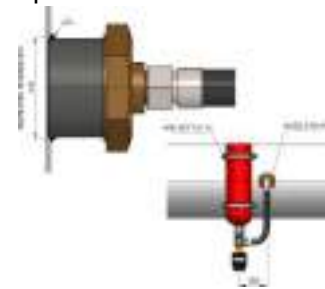
The process of welding the nozzle:

In a particular application site is drilled a hole 82 mm in diameter into the technology. The nozzle DN50 is welded around the perimeter to the protected device by a 2 mm welding fitting according to ČSN EN ISO 4063 (see Fig.). The nozzle must be approximately 150 mm (150 mm) away from the bottle axis because the connecting hoses are 400 or 700 mm in size.

NOTICE:

The DN50 nozzle assembly must be dismantled prior to welding to prevent internal nozzle parts from being broken. DN50 nozzle removal is done as follows:

- a) Enable and unscrew nut with key 90.
- b) Pull out the nozzle
- c) Remove the inner nozzle body.
- d) Remove the O-ring and the diaphragm from the nozzle.



Only the outer nozzle body with the nut is welded to the technology to avoid deformation of the outer body. The corner weld must be welded intermittently to avoid deformation of the outer body! However, the perimeter weld must be solid, gas-tight and resistant to pressure! All weld joints need to be coated with a suitable coating.

Procedure for mounting nozzle

In a particular application site is drilled a hole 82 mm in diameter in technology. The DN 50 nozzle is mounted on the protected device via a flange using 4 pieces of M10 screws ISO 4762 (galvanized, strength min. 10.9) and rivet nuts. The nozzle must be approximately 150 mm (150 mm) away from the bottle axis because the connecting hoses are 400 or 700 mm (see Fig.).

