

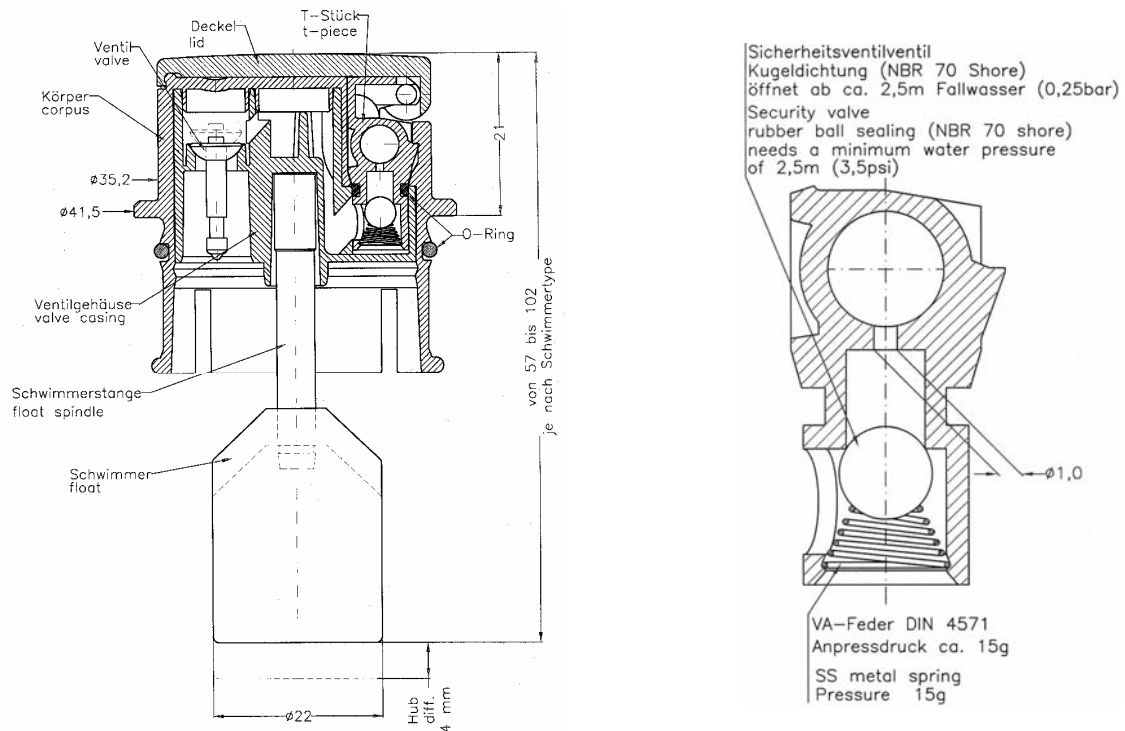
## bfs plug III with security valve

### 1. General Information

The bfs plug III with security valve will be installed predominant in areas with high risks of explosion, for example in the mining industry.

### 2. Characteristics:

Concerning the main functions there is no difference between this special plug and the standard plug III, however with an additional one way valve fitted. The use and maintenance for these plugs differ in some points, as mentioned below in Para 3.



The hole inside the t-piece for the incoming water is 1mm (normally 1,5mm). A NBR-ball which will be pressed against a sealing surface by a metal spring is operating as a one way valve. The water pressure must be at least 250mbar (3,5psi) in order to open the system.

### 3. Instructions/Conditions:

- The filling pressure of water must be at least 250mbar (3.5psi), which means **the distance between the lower side of the water tank and the upper side of the battery must be more than 2,5m (100")**.
- The hose from the tank to the battery must be filled completely with water – no air bubbles inside.
- The filling should take place maximal every second day in order to ensure the release of the pressure inside the plug before the next filling starts.
- The filling pressure should not be more than 0,7bar (10psi)
- Clean water is important, use the filter cartridge, avoid algae in the water tank, do not use transparent water tanks.

**Attention: Due to the security valve and the recommended low water pressure the filling procedure could take some more time!!**