

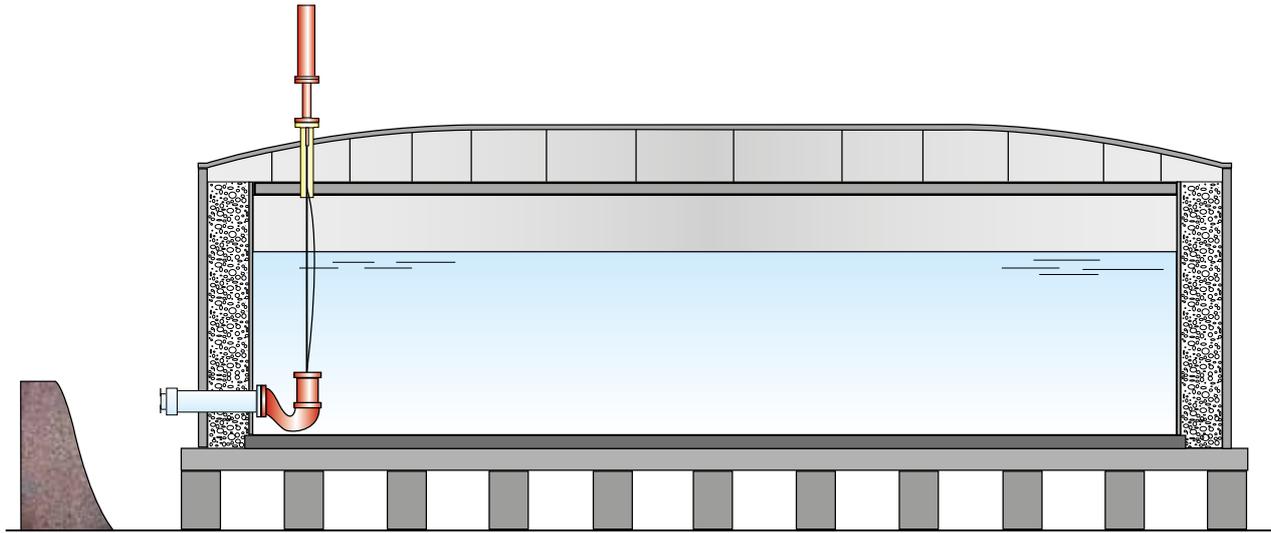


In-tank Valve with Pneumatic Actuator

PROTEGO® ITV-S



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In-tank Valves



Function and Description

PROTEGO® ITV-S in-tank valves are used in storage tanks for cryogenic liquids in order to seal off discharge lines in the event of an accident or emergency. These devices meet the requirements of API 625.

The PROTEGO® ITV-S consists of a valve guide unit with elbow and valve seat which is mounted on the inside of the tank wall. This unit accommodates the valve piston and guides it over the entire lift stroke. The seal between the valve seat and the valve disk is ensured by finely lapped surfaces and achieves maximum tightness.

The actuating unit, installed on the tank roof, is specifically designed for the requirements of the application and connected to the valve unit installed in the tank via suitable cables.

During normal operation, the valves are kept in the open position. The bottom valve is only closed in an emergency. In the event of an energy drop, the valve piston, due to its own weight, falls onto the valve seat which closes the bottom valve (fail safe concept).

The PROTEGO® ITV-S design provides the tank designer and the user with the following benefits:

- Very light and compact design
- Connection to the tank wall via flange connection
- No support or guidance required in the tank
- Low forces required for lifting the valve piston
- Extremely high tightness due to metallic sealing surfaces

Design and Specification

The standard PROTEGO® ITV-S version is manufactured in stainless steel. Other materials are available upon request and depending on the operating data. The design is custom made for each project.

Available sizes: DN250/10" to DN600/24".