

Press release

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AS-Schneider has now also received Fire Safe Approval for the ISO FE Series

AS-Schneider Industrial Valves are used in a wide range of applications and must withstand every challenge. For this reason, quality has a central role to play during each stage of an operation at our company.

ISO FE Series Monoflanges from AS-Schneider are fire type tested and certified to guarantee protection for the plant and personnel in the event of fire.

Our Monoflanges, VariAS-Blocks and K-Series Ball Valves are tested and approved for fire safety as standard. The test basis at AS-Schneider is ISO 10497 'testing of valves – fire-type testing requirements' and API 607 'fire test for quarter-turn valves and valves equipped with non-metallic seats'. The type test is monitored and certified at AS-Schneider by the Technical Inspection Authority TÜV SÜD.

'Fire Safe Design'

One often encounters the term "Fire Safe Design". However, this term is no guarantee that the valve will really offer a safe emergency operation in the event of fire. Only if the valve undergoes an appropriate type test, can one be sure that the medium will be safely shut off in the event of fire.

This is why tests are carried out

ISO 10497 defines the requirements and the process for evaluating the functionality of valves and fittings that are exposed to fire. These requirements are identical to API 607 in terms of content.

For this, the valve to be tested is exposed to water under pressure and to fire for a period of 30 minutes. There are strict specifications for the temperature of the flames and of the valve body that is measured with the help of thermocouples for the entire duration of the fire.

After being allowed to burn for a period of 30 minutes, the burners are switched off and within 10 minutes the valve is force cooled to below 100 °C. The 30-minute burning period corresponds to the maximum period required by the fire brigade to extinguish the fire in a plant.

The leakage from the valve seat and the external leakage are measured for the entire duration of the test. The leakages may not exceed a specific limit value. The valve is then tested again to ensure that it is operable.



What makes AS-Schneider's Fire Safe Construction so safe?

To guarantee the external tightness, only graphite or metallic seal rings are used for stem and body seals.

Spring washers ensure guaranteed internal tightness for OS&Y needle valves that compensate for the different length expansion of the individual parts, and therefore prevent the valve tip lifting off the valve seat.

Concerning ball valves a secondary metal sealing guarantees the internal tightness. Under normal operating conditions, a polymeric seat provides a bubble tight sealing. In the event of fire, the secondary metal sealing will ensure the tightness instead of the burnt polymeric seat.

Would you like more information? Then just send us an e-mail to kontakt@as-schneider.com. We look forward to hearing from you.

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