

High-pressure valves for corrosive gases

1. affected component

Sealing components in valves. Made from PEEK, PVDF, PTFE and FKM.

2. sector of the affected component

Corrosive gases industry and swimming pools (chlorine).

3. key functions of the affected component

Sealing.

4. amount of fluoropolymers used for the affected component

Marginal amounts. Support rings, sealing pills, sealing rings and o-rings

5. replacing PFAS in the affected component

alternative materials exist

alternative materials do not exist x

5.1. materials which may be used as alternatives:
none.

5.2. amount of material replaceable with 5.1.
not replaceable

5.3. amount of material not being replaceable
There are not alternatives. PFAS are used for direct sealing and also as kind of a “support-ring” after o-rings. While those o-rings may be not 100% leakproof the chemical resistance of the support-ring has to be given. Otherwise this would cause bigger injuries.

5.4. problems and risks if material(s) 5.1. is used

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6. consequences of banning fluoropolymers in the affected component

Various supply reliability in the chemical industry and in swimming pools (chlorine).