

ChemValve | Check Valves

Manufacturer's Declaration

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Manufacturer:	ChemValve-Schmid AG I Duennernstrasse 540 I CH-4716 Welschenrohr quality@chemvalve-schmid.com I www.chemvalve-schmid.com	
Subject:	Explosion Prevention	
Risk Assessment:	The risk analysis & assessment show that the equipment do not have their own potential sources of ignition to the outside. Thus, the equipment are not within the scope of ATEX 2014/34/EU and may be used without any restriction in potentially explosive atmospheres when it comes to their installation site.	
Directive-compliant explosion protection zones:	0, 1, 2, 20, 21, 22	
CE or explosion protection marking:	The CE marking relates only to the Pressure Equipment Directive (PED) 2014/68/EU. Marking according to ATEX 2014/34/EU 🐼 is neither present nor allowed as the equipment are not within the scope of ATEX 2014/34/EU. At the same time, a declaration of conformity covered by ATEX 2014/34/EU may not be issued.	
Applied harmonised standards:	EN 1127-1:2011; EN ISO 80079-36	
Changes:	Any unauthorised change to the equipment invalidates this declaration	
Equipment description		

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Product types:	Check Valves: CSD CVD DSF CSL DTEF Flap Valves: CSC DDC
Material codes:	11, 27, 33, 64, 65, 67, 68, 76, 77, 86, 87, 90, 94, 95
Versions:	DN 15–DN 1200 PN 6–400 ANSI Class 150–2500

Comments on assessment of internal ignition risks

Check valves & flap valves are pressure accessories according to Pressure Equipment Directive (PED) 2014/68/EU on passage and blockage of fluids of groups 1 & 2 with the exception of instable gases. The scope is outside of the atmospheric conditions (20-40°C or 0.8-1.1 bar) and shall thus, be excluded from the scope of this Directive.

Accordingly, within these equipment — depending on the nominal size or the differential pressure — sparks caused by individual mechanical blows can become an effective source of ignition.

When using these equipment for operating media, which can contain potentially explosive media in case of proper use or under specific circumstances (e.g. cleaning), the operator shall undertake to perform a risk analysis according to the requirements of the Directive 1999/92/EC.

The risk analysis must consider the material properties of the equipment and/or the pressure conditions (absolute & differential pressure or closing speed) within the equipment as well as the safety-related parameters of the operating media (ignition limits, minimum ignition energy, ignition temperature and flame point).

Welschenrohr, 05.05.2022

Pascal Willi Quality Manager

