


Requalification test of corrosion resistance of Zn-Ni surface coated products



TESTS PERFORMED BY ACCREDITED LABORATORY:

Laboratory name:	Materials testing laboratory Atotech	
Postal Address:	Belgická 5119, Rýnovice CZ-466 05 Jablonec nad Nisou Czech Republic	
Accreditation Number:	L 1674	
Accredited by:	Czech Accreditation Institute (ČIA)	
Accredited acc. to:	Standard ČSN EN ISO / IEC 17025 : 2018	
Website:	www.atotech.com	

TEST CONDITIONS:

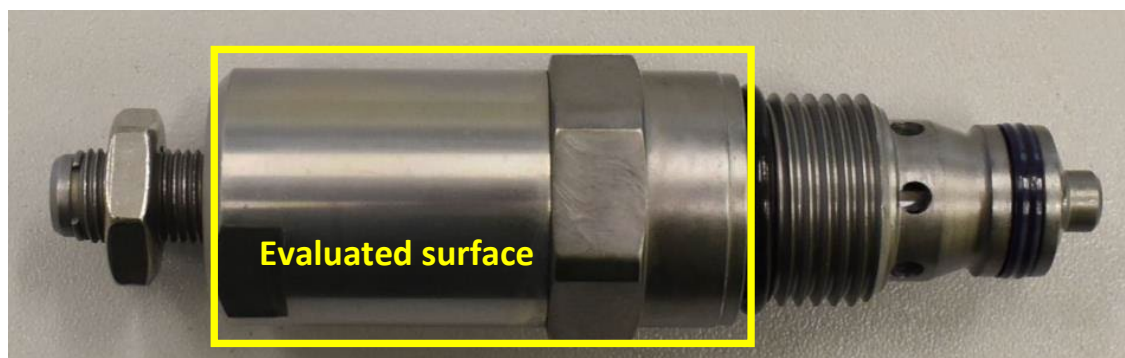
Corrosion test in neutral salt spray (NSS) according to ČSN EN ISO 9227	
Humidifier / chamber temperature	50 / 35 °C (122 / 95 °F)
Dosing nozzle pressure	1 bar (14.5 PSI)
Humidifier pressure	1.1 bar (16 PSI)
Salt water solution prepared acc. to:	Standard ČSN EN ISO 92227 (NSS)
Salt water solution flow rate	450 ml/h
Testing equipment	Corrosion chamber MAT-011
Test duration	1,008 h evaluation after 96 / 528 / 840 / 1,008 h

TEST REPORT:

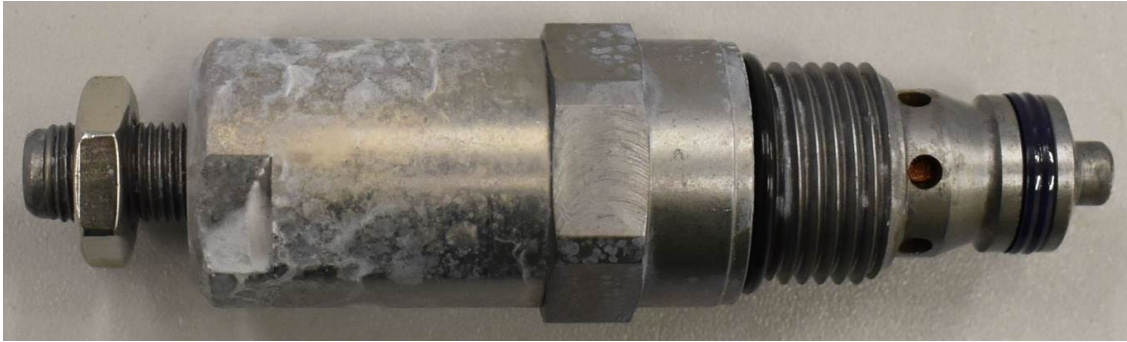
Published test results refer to the test report No. 10254889
Time interval of testing: from 24 th July, 2024 to 5 th August, 2024
Test report issued on 6 th August, 2024

TEST RESULTS:

1. SIC pressure relief valves SR1A-B2



Sample before the test

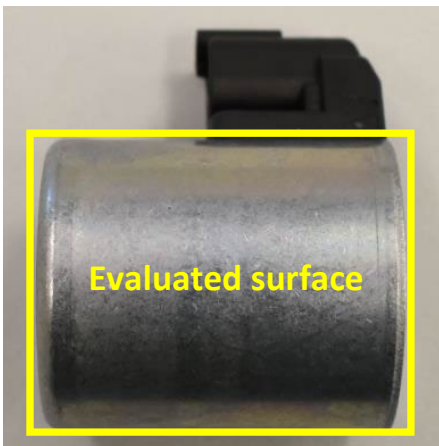


Sample after 96 h – white corrosion on the 10 % of evaluated surface



Sample after 1,008 h – white corrosion on the 25 % of evaluated surface

2. Solenoid coil C22B



Sample before the test



Sample after 96 h – white corrosion on the 1 % of evaluated surface



Sample after 1,008 h – white corrosion on the 10 % of evaluated surface

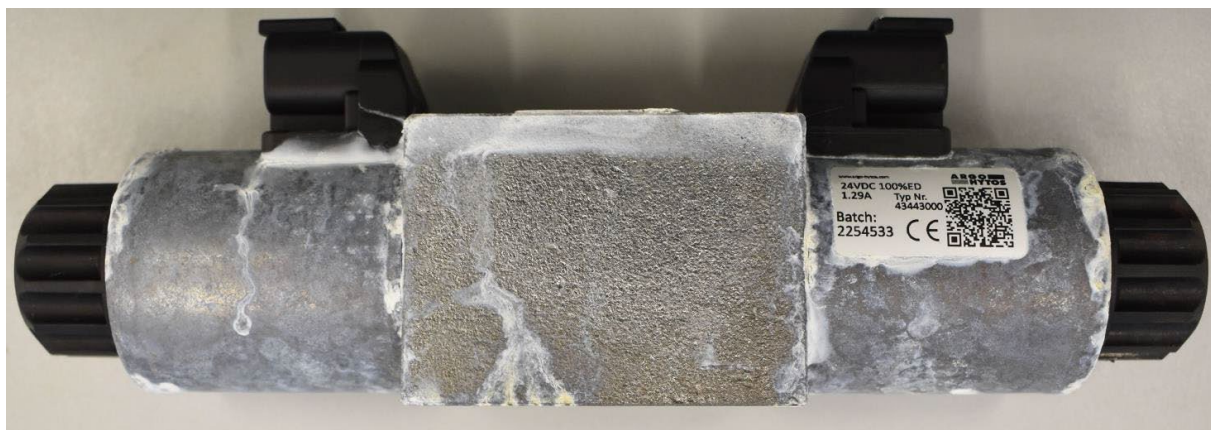
3. Directional control valve with a casted body, operated by two solenoids



Sample before the test



Sample after 96 h – white corrosion on the 5 % of evaluated surface



Sample after 1,008 h – red corrosion on the 5 % of evaluated surface