





# Annex I

## No. 1N190624.ZTTU94

Technical Construction File no. SIL-WSKTHNB893

- The use of the product must obey the required rules to conservation of SIL3 properties. These rules are recalled in the §6 of the Assessment Report reference: [SIL Capability assessment report]
- The product version of hardware components used for validation and type tests are the following:

Component	Model
Ball Valve	AF90D, AF94D, AF95D, AF96D, A/AF20, A/AF20D, A/AF20DA

- Acceptable environmental constraints for the system are recalled in the safety Manual. These elements must be checked for each integration operation of the product.
- The SIL 3 capable certified Safety Instrumented Function of product is the following:
  - SF1: To Close on demand.
  - SF2: To Open on demand.
- Hypothesis used for calculations are presented here under: The mode of operation is Low demand, which means less than 1 trip demand each year;

Component architecture	SIL Capability	Demand frequency	PFD
1oo1 configuration	SIL2	Low	9.16E-04
1oo2 configuration	SIL3	Low	2.12E-04

Safety function	Failure rate	Undetected dangerous failure rate	Tests intervals	MTTR
SF1	4.19E-05	4.28E-07	12months	48h
SF2	4.09E-05	4.31E-07	12months	48h

- The Safety Integrated Level of the safety function using the product shall be calculated taking into account the characteristics of the whole system.