To whom it may concern.

Reference	Telephone	Telefax	Capelle a/d IJssel
RV/1322	010 284 13 22		17.07.2017

Declaration of compliance

We herewith declare that the ECON actuators fig. 7901 & fig. 7902 are suitable for the use in safety related systems up to and including SIL 2, under consideration of the minimum required hardware fault tolerance HFT = 1 the valves may be used in a redundant architecture up to SIL 3.

Based on the results of the analysis of our Manufacturer's field experience the below mentioned results can be achieved (ref. V 550.01/17 & V 545.01/16)

	Fig. 7901	**Fig. 7902**
Route of Assessment	2_H / 1_S	2_H / 1_S
Type of Sub-system	Type A	Type A
Mode of operation	Low Demand	Low Demand
Hardware Fault Tolerance (HFT)	0	0
Lambda dangerous confidence level of calculation (λ_D) 1-_a = 95%	2.23 E-07 / h	1.90 E-07 / h
Lambda dangerous undetected assumed diagnostic coverage DC = 0% (λ_{Du})	2.23 E-07 / h	1.90 E-07 / h
Mean time to dangerous failure ($MTTF_D$)	4.49 E+06 h	5.26 E+06 h
Average probability of failure on demand 1oo1 assumed test interval T_1 = 1 year PFD_{avg} (T1)	9.76 E-04	8.33 E-04
Average probability of failure on demand 1oo2 assumed β_{1oo2} = 10% PFD_{avg} (T1)	9.76 E-04	8.33 E-04

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