

Hereby we, **InterApp Technics AG**

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declare that, for the valves listed below, the failure rates outlined below were detected in safety-related applications in accordance with IEC 61508 and IEC 61511.

Butterfly Valve	Type	Range
Bianca	B1, B3, B4	From DN32 up to DN900

Systematic Capability:

Bianca Range of valves is suitable to reach SIL-2 with 1oo1 and SIL-3 with 1oo2 for all calculated configurations using Route1H.

For Route 2H SIL-2 is achieved with 1oo1 and SIL-3 with 1oo2.

Safety function:

The butterfly Valve will move to the designed safe position per the actuator design within the specified safety time.

Authorized Person for the Manufacturer: R&D Manager

Name: Antonio Maestre

Signature:



Random capability:

The evidence is based on proven in use, and number of sales and customer complaints about defective valves have been evaluated over a certain period of time.

The determined failure rates apply to the operating mode. Probability of failure on demand is strongly connected to the conditions in use (temperature, pressure, fluid). Therefore, it's recommended to define the maintenance intervals and testing in collaboration with the manufacturer.

Safety Related Characteristics:

		TI = 1 Year		TI = 2 Years	
		1oo1	1oo2	1oo1	1oo2
$\beta=0\%$	PFD_{AVG}	6,14E-03	3,49E-05	7,30E-03	4,03E-05
	PFH	3,79E-07	4,66E-09	3,79E-07	5,54E-09
	SFF	0,00%	0,00%	0,00%	0,00%
	λ_{DU}	379 FITS			
	λ_{DD}	0 FITS			
	MTTF	301 years			
	PFD_{AVG}	6,14E-03	6,42E-04	7,30E-03	7,63E-04
$\beta=10\%$	PFH	3,79E-07	4,17E-08	3,79E-07	4,24E-04
	SFF	0,00%	0,00%	0,00%	0,00%
	λ_{DU}	379 FITS			
	λ_{DD}	0 FITS			
	MTTF	301 years			