



CONFORMITY VERIFICATION STATEMENT ANNEX TO SIL REPORT

manufacturer:

BREMER VALVES S.r.l.

Via Vignate 3/A – 23890 - Barzago (LC) – ITALY

referring to product(s):

<i>Description</i>	INDUSTRIAL BALL VALVES
<i>Types</i>	FLOATING AND TRUNNION TOP ENTRY & SIDE ENTRY
<i>Safety Function</i>	When an unsafe condition is detected, the controller (outside the subsystem) drives the actuator to close (open) the valve.
<i>Test Result</i>	Above mentioned devices of the series are suitable for use in safety related systems as a single safety related subsystem according to IEC 61508-1/7:2010 for up to and including SIL 3 and the hardware meets the requirements of IEC 61508. For detailed results see test report n° 69652-1-R rev. 00 of 15/2/2022

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EUROCERTIFICATIONS S.R.L.
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Sede Legale e Operativa:
Via Puccini, 1 - Madone (BG) 24040
P.IVA / C.F.: IT04336060167



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	Ball Valves	PFD estimation						
				Test Interval frequency (months)				
				6	12	24	36	48
λ_{DD}	7,2632E-08	Partial Stroke frequency (months)	1	3,9397E-05	5,1036E-05	7,4313E-05	9,7591E-05	1,2087E-04
			2	6,5907E-05	7,7546E-05	1,0082E-04	1,2410E-04	1,4738E-04
			3	9,2418E-05	1,0406E-04	1,2733E-04	1,5061E-04	1,7389E-04
			6		1,8359E-04	2,0687E-04	2,3014E-04	2,5342E-04
			9				3,0968E-04	
			12			3,6593E-04	3,8921E-04	4,1249E-04
			Test Interval frequency (months)					
			6	12	24	36	48	
λ_{DU}	5,3145E-09	NO Partial Stroke Test	1,7195E-04	3,4265E-04	6,8406E-04	1,0255E-03	1,3669E-03	
			Test Interval frequency (months)					
			6	12	24	36	48	
λ_S	1,4172E-08	Partial Stroke frequency (months)	1	SIL3	SIL3	SIL3	SIL3	SIL3
λ_{TOT}	9,2119E-08		2	SIL3	SIL3	SIL3	SIL3	SIL3
	3		SIL3	SIL3	SIL3	SIL3	SIL3	
	6			SIL3	SIL3	SIL3	SIL3	
	9					SIL3		
	12				SIL3	SIL3	SIL3	
			Test Interval frequency (months)					
			6	12	24	36	48	
MRT	16h	NO Partial Stroke Test	SIL3	SIL3	SIL3	SIL2	SIL2	
MTTR	40h							
SFF	>90%							
β	0,05							
β_D	0,05							

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