



Certificate of Conformity No.: 28708246

Manufacturer: Dafram S.p.A.
Via Tito Vignoli, 9
I-20146 Milano

Specifications: IEC 61508-1+7:2000

Date: 2009-01-30

Equipment: Trunnion Mounted Ball Valves

Type S, P, D, W, H, A, B

RESULT:

As per the TÜV Rheinland Italia Report No. FS 28708246 Rev. 1.1 dated 2009-01-26, we declare that the product meets the below requirements:

IEC 61508: 2000, part 1 to 7

Functional Safety of electrical/electronic/programmable electronic safety related systems; Type A, Low Demand Mode, HFT=0

λ_S [1/h]	λ_D [1/h]	λ_{DU} [1/h]	λ_{DD} [1/h]	SFF (No Partial Stroke Test)	SFF (Partial Stroke Test)
$1,82 \cdot 10^{-7}$	$6,89 \cdot 10^{-8}$	$1,72 \cdot 10^{-8}$	$5,17 \cdot 10^{-8}$	72,6 %	97,3 %

PFD_{AVG} value for TI (Test Interval): 1 year = $3,03 \cdot 10^{-4}$

For PFD_{AVG} values for different values of TI and TI_{PS} (Test Interval Partial Stroke): see TÜV Rheinland Italia Report No. FS 28708246 Rev. 1.1 dated 2009-01-26.

As per these values, the aforementioned product can be used up to SIL 3 as a "single device".

Expiry date: **2011-12-31**

Location: **Milan**

Date: **2009-01-30**

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Test Laboratory for Pressure
Equipment

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