

IEC 61508 CONFORMITY CERTIFICATE.

MECÁNICA PRISMA, SL Certifies that the following Pneumatic Actuators Systems have PFD or PFH suitable to Use In a SIL Safety Loops:

Component	Failure Rate	Dangerous Failure Rate	PFD	PFH	Capable SIL (PFD)	Capable SIL (PFH)
PA00	1,00E-08	1,00E-08	4,38E-05	1,00E-08	SIL3	SIL3
PA00S	1,80E-08	1,80E-08	7,89E-05	1,80E-08	SIL3	SIL3
PA05	3,00E-08	3,00E-08	1,31E-04	3,00E-08	SIL3	SIL3
PA05S	1,30E-08	1,30E-08	5,70E-05	1,30E-08	SIL3	SIL3
PA10	1,10E-08	1,10E-08	4,82E-05	1,10E-08	SIL3	SIL3
PA10S	1,20E-08	1,20E-08	5,26E-05	1,20E-08	SIL3	SIL3
PA15	1,40E-08	1,40E-08	6,14E-05	1,40E-08	SIL3	SIL3
PA15S	1,20E-08	1,20E-08	5,26E-05	1,20E-08	SIL3	SIL3
PA20	1,80E-08	1,80E-08	7,89E-05	1,80E-08	SIL3	SIL3
PA20S	1,50E-08	1,50E-08	6,58E-05	1,50E-08	SIL3	SIL3
PA25	1,80E-08	1,80E-08	7,89E-05	1,80E-08	SIL3	SIL3
PA25S	2,70E-08	2,70E-08	1,84E-05	2,70E-08	SIL3	SIL3
PA30	4,00E-07	4,00E-07	1,75E-03	4,00E-07	SIL2	SIL2
PA30S	2,08E-07	2,08E-07	9,12E-04	2,08E-07	SIL3	SIL3
PAW	1,20E-08	1,20E-08	5,26E-05	1,20E-08	SIL3	SIL3
PAWS	1,60E-08	1,60E-08	7,02E-05	1,60E-08	SIL3	SIL3

Remark:

The Actuators included in this Certificate are according to the following classification:

HTF 0, Type A, Low Demand Operation Mode, SFF is limited to the HTF.

The capable assessment results carried out by CFSE (Ref. XA/AS/MPSL/20130301/V00/R00) are based on the Field Experience & FMEA Design obtained from MECANICA PRISMA, SL.

X. Albareda / Technical Manager. 2013/04/01

Original Declaration Date: 2013/04/01

ISO-TS-29001, API Q1., Pneumatic Actuators According to PED Directive 97-23-EC, ATEX Directive 94-9-EC, Type Approval (Type Approved Product) SIL (IEC-61508), Cryogenic Services & Gost R Certification.

