

[1] **ATTESTATO DI SICUREZZA FUNZIONALE**  
**FUNCTIONAL SAFETY ASSESSMENT ATTESTATION**

[2] E/E/PE Electrical / Electronic / Programmable Electronic

[3] Numero dell'attestato  
*Number of the attestation* **XEF 20 SIL 0002** Issue Number: **0**

[4] Componenti di sicurezza:  
*Safety Components:* **P1: Head Control For Double Solenoid Valve**  
**ADPE66CSIL2 ADPE66SIL2**  
**P2: Pressure Switch ADPE69S\_\_**

[5] Fabbricante:  
*Manufacturer:* **Antincendi Unidet S.r.l.u**

[6] Indirizzo:  
*Address:* Via Copernico 4 int.6 - 20007 - Cornaredo (MI) Italy

[7] Questo componente di sicurezza e le sue eventuali varianti accettate sono descritti nell'allegato al presente certificato e nei documenti descrittivi pure riportati in esso.  
*This safety component and its any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.*

[8] XEFRACTERT, dichiara che questi componenti di sicurezza sono progettati in conformità a quanto previsto dalle norme tecniche di Sicurezza funzionale.  
*XEFRACTERT, declares that this safety components, are designed in accordance with functional safety standards.*

Le verifiche sono registrati nel rapporto a carattere riservato n. **448UNI-TECH-20-01**  
*The examination are recorded in confidential report n.* **Rev.0**

[9] I requisiti essenziali di sicurezza e salute sono assicurati dalla rispondenza alle **Norme applicate:**  
*The essential health and safety requirements are assured by compliance with applied **Standard:***

**IEC 61508 (Part 1 to 7) ed.2.0**

**Functional Safety of electrical/electronic/programmable electronic safety related systems**

[10] Gli allegati all'attestato possono contenere informazioni sul componente di sicurezza ovvero indicazioni speciali per l'utilizzo in sicurezza. *This safety component and its acceptable variants are described in the Annex of this certificate and in description documents in it.*

[11] Questa apparecchiatura e le sue eventuali varianti accettate sono descritte nell'allegato al presente certificato e nei documenti descrittivi in esso presenti.  
*This equipment and its acceptable variants are described in the Annex of this certificate and in description documents in it.*

[12] Il componente di sicurezza deve riportare uno dei seguenti i seguenti contrassegni:  
*The safety components shall include one of the following symbols:*

**P1 SIL2 capable**

**P2 SIL2 capable**

**HFT=0**

**Type A Subsystem**

Questo certificato, allegato incluso, può essere riprodotto solo integralmente e senza alcuna variazione.

*This certificate, including the Annex, may only be reproduced in full and without any change.*

Rivalta Scrivia (AL) 09.12.2020

09.12.2023

Francesca Gradassi

Luogo e data di emissione

Data di scadenza

Il Responsabile Sicurezza Funzionale

Place and issuing date

Expiry date

Functional Safety Manager

**Attestation n.:****XEF 20 SIL 0002** Issue Number: **0****Note****Remarks**

Where changes are made to the product (although minimal) or to the production process, the manufacturer is obliged to immediately inform XEFRACT, otherwise the validity of this attestation voids. The Manufacturer is responsible of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market, accordingly to the relevant standards. The regulations of XEFRACT S.R.L. apply in their current version

[13] **Allegato / Schedule**

[14] **Attestation XEF 20 SIL 0002** Issue Number: **0**

[15] **Descrizione dell'apparecchiatura – Description of the equipment**

**P1 Electric Control Head**

This automatic / manual control has to be used and mounted on the Antincendi Unidet srlu High-rate discharge valves and interconnector only. These are mounted on the CO2 or N2 cylinders with direct activation and Its actuation can be electric and manual with direct or remote activation through box with handle. The electric actuation is realised with a redundant solenoid valve as per picture below.

Installation of assembly shall be done according to the instruction provided by the manufacturer.

Max working pressure of assembly: 260bar

Max tightening torque on HRDV Min.: 90 Nm

Manual opening: 10 Nm

Model of Electric Control Head:

- ADPE66S1SIL2
- ADPE66SIL2
- ADPE66CS2SIL2
- ADPE66CSIL2

Working temperature range: -20 / 50°C:

**P2 Pressure switch 1NO + 1NC**

Models of pressure switch are:

- ADPE69SS1
- ADPE69SNPTS1
- ADPE69SNPT-OI316S1
- ADPE69SNPT-I316S1

Pressure switches are suitable to be installed on manifolds, plant with extinguishing: CO2, Nitrogen, Argon, HFC, H2O.

Minimal pressure of test: 2,5 bar

Design temperature -20+40°C

Intervention pressure 5 bar

Optional Extended T6 -50+60°C

Max working pressure 362 bar

Optional Extended T5 -50+80°C

Max pressure of test 543bar

Protection degree IP67

[13]

**Allegato / Schedule**

[14]

**Attestation XEF 20 SIL 0002** Issue Number: **0****Condizioni di Installazione - Installation conditions**

Specification of the maximum periodic test interval in order to comply with claimed PFDavg. target: 1 year.

Product	$\lambda_{du}$ [FIT]	$\lambda_{dd}$ [FIT]	$\lambda_s$ [FIT]	TI [h]	MRT	PFDavg (1oo1)
P1	154	274	403	8760	72	$6.75 \times 10^{-4}$
P2	24	0	128	8760	72	$5.61 \times 10^{-4}$

**Prove Individuali - Routine Tests**

Functional Verification

**Avvertimenti di targa – Warnings**

Nessuna/None