



The manufacturer
may use the mark:



Revision 3.4 December 29, 2025
Surveillance Audit Due
November 1, 2028



Certificate / Certificat Zertifikat / 合格証

BIF 1610005 C002

exida hereby confirms that the:

PSV5A / PSV5E Flowline Pilot Valves
Bifold Fluidpower Ltd.
Chadderton, Greater Manchester, UK

Has been assessed per the relevant requirements of:

IEC 61508 : 2010 Parts 1-2

and meets requirements providing a level of integrity to:

Systematic Capability: SC 3 (SIL 3 Capable)
Random Capability: Type A, Route 2_H Device

**PFH/PFDavg and Architecture Constraints
must be verified for each application**

Safety Function:

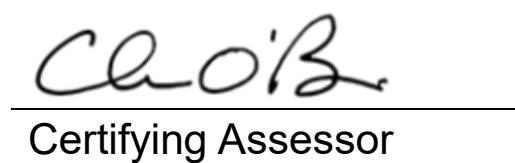
The Valve will move to the designed safe position per the valve configuration within the specified safety time.

Application Restrictions:

The unit must be properly designed into a Safety Instrumented Function per the Safety Manual requirements.




Evaluating Assessor


Certifying Assessor

Certificate / Certificat / Zertifikat / 合格証

BIF 1610005 C002

Systematic Capability: SC 3 (SIL 3 Capable)

Random Capability: Type A, Route 2_H Device

**PFH/PFDavg and Architecture Constraints
must be verified for each application**

Systematic Capability :

The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

A Safety Instrumented Function (SIF) designed with this product must not be used at a SIL level higher than stated.

Random Capability:

The SIL limit imposed by the Architectural Constraints must be met for each element. This device meets *exida* criteria for Route 2_H.

IEC 61508 Failure Rates in FIT*

Application	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}
Single, Low (falling) Trip, NO	0	43	0	308
Single, High (rising) Trip, NO	0	178	0	173
Single, Low (falling) Trip, NC	0	118	0	233
Single, High (rising) Trip, NC	0	68	0	283
Twin	0	373	0	383

* FIT = 1 failure / 10⁹ hours

SIL Verification:

The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of PFH/PFDavg considering redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each element must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

The following documents are a mandatory part of certification:

Assessment Report: BIF 16/10-005 R003 V3, R4 (or later)

Safety Manual: SIL – SM.017 Rev 2 or later



80 N Main St
Sellersville, PA 18960

T-061, V5R2