

CERTIFICATE

The Product(s)

BUTTERFLY VALVE

Manufactured by,

Duncan Engineering Limited

F-33, Ranjangaon MIDC, Karegaon, Tal. Shirur, Dist. Pune – 412 220
Maharashtra, India.

has been reviewed / assessed with respect to Functional Safety Standards

IEC 61508 Parts 1-2 and 4-7 : 2010

IEC 61511 Parts 1-3 : 2004

**Systematic capability : SIL 3 Capable
with HTF=1 (SIL 2 Capable with HTF=0)**

Date of Original Issue : 27-02-2026

Date of Re Issue : 01-07-2026

Valid up to : 26-02-2029

Applications/Limitations: See page 2.

Note :

This Certificate is valid for metioned product and with yearly Surveillance as mentioned in page 2.

The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction may render this certificate invalid.

All product liabilities rest to manufacturer in case of damage or noncompliance product(s).

Gulf Lloyds does not accept any liabilities or claims raised due to this certificate.

For genuinity check please visit www.gulfloyds.info

Issued at:
Local HO
Ahmedabad



01.07.2026

B. Jaykumar

Place

Date

Head – Tech. Certification

H.O.(INDIA): Gulf Lloyds (INDIA) Limited (Industrial Services)

910-909, GALA Empire, Drive-In Road, Ahmedabad-380054, Gujarat, India.

H.Q.(UAE): Gulf Lloyds (Middle East) LLC

PO No.515000, Shams Business Centre, United Arab of Emirates.;

info@gulfloyds.org ; certification@gulfloyds.org ; +971-506930311

WWW.GULFLLOYDS.ORG

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DOC.NO.:GL/MMC/009-R01

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Certificate No.: **GLIS/DEL/2026/02/CC-0207, Rev.01**

GL Ref. No.: **101-091-6202-02-0208**

PRODUCTS COVERED BY THIS CERTIFICATE

Sr. No.	Description	Type	Model	Size/Class
01	Double Offset Butterfly Valve	Double offset	Series / Model-B2	Size:2" to 24" / Class 150 to 300
02	Triple Offset Butterfly Valve	Triple offset	Series / Model-B3	Size:2" to 24" / Class 150 to 300
03	Centric Butterfly Valve	Centric	Series / Model-B1	Size:2" to 24" / Class 150 to 300

SITE(S) COVERED BY THIS CERTIFICATE

Production site name	Production site address
Duncan Engineering Limited	F-33, Ranjangaon MIDC, Karegaon, Tal. Shirur, Dist. Pune – 412 220, Maharashtra, India.

CERTIFICATION HISTORY

Revision	Description	Issue Date
00	Original Certification	27.02.2026
01	Revise certificate with updated model/Serial number	01.07.2026

SAFETY FUNCTION

The Butterfly Valve will move to the designed safe position per the actuator design within the specified safety time.

SPECIFIC REQUIREMENTS

The instructions of the associated Installation, Operating and System Manual have to be considered.

The valves are suitable for use in a safety instrumented system up to (Safety Integrity Level) SIL 3.

Under consideration of the minimum required hardware fault tolerance HFT = 1 the valves may be used in a redundant structure up to SIL 3.

IEC 61508 Failure Rates is FIT*

Application	λ SD	λ SU	λ DD	λ DU
Full Stroke	0	0	0	485
Tight Shut-Off	0	0	0	1157
Open on Trip	0	106	0	379

APPLICATION / LIMITATIONS

- This Material Manufacturer Certificate does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of IEC 61508 Parts 1-7 and 4-7 : 2010 and IEC 61511 Parts 1-3 : 2004 with Functional Safety requirements.
- Supply of the products as listed above shall be as per inspection documentation *BS EN 10204 3.1 or 3.2* certification requirements under the discretion of the Purchaser.
- The qualification held with respect to sample prototype of above mentioned products.
- The re-qualification process shall be repeated if any essential changes are made to the production route or the manufacturing procedure. E.g. change in the manufacturing process, a major change of manufacturing equipment, Material selection.
- If production is carried out at different plants / locations, a separate qualification is required for each plant. This applies also for change of in-house to subcontractors or change of subcontractor for essential operations.
- Any type of changes in products' design, construction, process and amendments must be notified at Local H.O.

TERMS AND CONDITIONS

The certificate is subject to the following terms and conditions:

- Product Liability rests with Manufacturer, in case of damages caused by defective products.
- The Certificate is only valid for the sample product(s) listed above.

The following may render this certificate invalid:

- Any deviation to application/limitation listed above.
- Changes in the design or construction of the product(s).
- Changes or amendments to the referenced standards.

Note: Certificate Valid for 3 Years subject to Successful Surveillance Audit from the Date of First/Initial issue of certificate.

1 st Surveillance: Sign-Date-Stamp	2 nd Surveillance: Sign-Date-Stamp	3 rd Surveillance: Sign-Date-Stamp
Due: Feb. 2027	Due: Feb. 2028	Due: Feb. 2029

Issued at:
Local HO
Ahmedabad



01.07.2026



B. Jaykumar

Place

Date

Head – Tech. Certification

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