

CRYOGENIC BUTTERFLY VALVE

# Cryogenic Triple Eccentric Butterfly Valve

REF **EFC-489** ISSUED 06 Jul 2026

## SPECIFICATIONS

Size	<b>DN15 to DN600</b>
Pressure	<b>PN10 / Class 150 to PN420 / Class 2500</b>
End connection	<b>flanged / butt-welding</b>
Temperature	<b>-196°C to 120°C</b>
Media	<b>Liquefied Natural Gas (LNG), Cryogenic media</b>

## ACTUATION

- manual
- pneumatic
- electric

## APPLICATIONS

- Liquefied natural gas (LNG) process systems
- Flow regulation and system pressure control
- Chemical process



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

## MATERIALS

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Body **Stainless Steel, Alloy Steel**

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## FEATURES

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- Triple eccentric design with stem axis offset from disc centre and body centre, and rotational axis at an angle to body channel axis
- Conical metal-to-metal sealing surfaces forming elliptical contact; sealing tightens under increased pressure
- Bidirectional zero leakage capability
- Inherently fire resistant and fire tested metal-to-metal seals
- Inspection port design enabling online (field) replacement of seat and seal without removing the valve from the line
- Extended bonnet plus drip tray maintains stuffing box temperature above 0 °C to prevent stem/packing freeze-lock
- Fully adjustable, field-replaceable stem packing system meeting fugitive emission certification standards
- Tortoise shell-type butterfly disc profile optimises Cv/Kv by maximising flow and reducing resistance
- Three-dimensional simulation optimisation used to control material behaviour under cryogenic conditions
- Compact and lightweight construction
- No abnormal valve cavity pressure build-up
- Eccentric design reduces operating torque and friction during opening/closing
- Self-locking characteristic: disc becomes tighter under pressure when closed

## OPTIONS & NOTES

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- Technical Specification available for download (content not published on page)
- Operator options listed as 'Manual, Pneumatic, Electric, etc...' — additional actuation types available on request