

CRYOGENIC BUTTERFLY VALVE

# Cryogenic High-Performance Butterfly Valve

REF **EFC-487** ISSUED 06 Jul 2026

## SPECIFICATIONS

Size	<b>NPS 6 to NPS 80</b>
Pressure	<b>Class 150 / PN10 to Class 600 / PN50</b>
Temperature	<b>-196°C to 120°C</b>
Media	<b>Liquid oxygen (LOX), Liquefied natural gas (LNG), Liquid nitrogen (LIN), Refrigerants, Liquid food media</b>

## ACTUATION

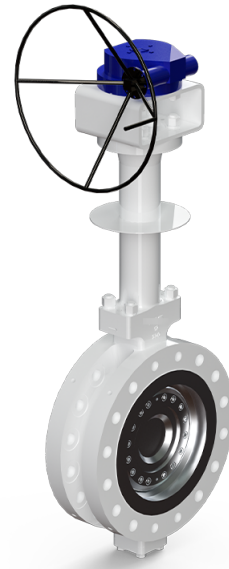
- Replaceable / interchangeable actuator interface — Standardised valve stem head allowing actuator replacement

## STANDARDS

Design	<b>API 609</b>
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## APPLICATIONS

- Liquefied natural gas (LNG) process systems — flow regulation and system pressure control
- Chemical process systems — refrigerant, liquid oxygen, liquid nitrogen transportation
- Food processing — liquid food delivery systems



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

**MATERIALS**

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Body	<b>Low temperature steel, Stainless steel, Alloy steel</b>	Valve stem	<b>High-strength alloy (one-piece integral)</b>
Valve seat	<b>Flexible lip sealing ring (elastic structure)</b>		

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**FEATURES**

- Offset valve stem and eccentric butterfly plate design-seat and disc do not contact during opening or mid-position, reducing friction and operating torque
- Double safety anti-blow-out valve stem structure-independent stem retention mechanisms at both upper and lower ends, compliant with API 609
- Two-way sealing flexible lip seat-elastic structure auto-adjusts with temperature and pressure changes; achieves bubble-tight (no-bubble leakage) two-way sealing
- Internal travel limiter-reduces probability of seat damage and extends seat service life
- Fireproof and anti-static structure (optional)
- High-strength one-piece integral valve stem-ensures effective torque transmission and sealing integrity
- Standardised valve stem head-allows actuator replacement without modification

**OPTIONS & NOTES**

- Fireproof and anti-static structure is optional
- Technical specification available for download (document not reproduced in page text)