

CRYOGENIC CONTROL VALVE

# Cryogenic Single-seat Control Valve

REF EFC-491 ISSUED 07 Jul 2026

## SPECIFICATIONS

Size	<b>NPS 1 to NPS 24</b>
Pressure	<b>Class 150 / PN10 to Class 2500 / PN420</b>
End connection	<b>flanged (ANSI)</b>
Temperature	<b>-196°C to 150°C</b>
Media	<b>LNG, liquid oxygen, liquid nitrogen, LPG, natural gas, oil, gas</b>

## ACTUATION

- manual
- pneumatic
- electric

## STANDARDS

Design **IEC 60534-4, GB/T 4213**

## COATINGS & LINING

- Special surface treatment on valve internals to increase wear resistance by more than three times

## APPLICATIONS

- Air separation equipment
- Low-temperature storage and transportation systems
- LNG facilities
- Long-distance oil and gas pipelines



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

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## MATERIALS

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Body	<b>Stainless Steel, Alloy Steel</b>	Seat	<b>Hardened Alloy</b>
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## FEATURES

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- Integral forged valve body construction
- Bellows seal assembly for reliable sealing under extreme temperature conditions
- Parabolic or equal percentage flow characteristic valve core
- Hardened alloy valve seat for precise fit with valve core
- Pressure-balancing valve core design to reduce operating torque
- High-precision guiding system achieving regulation accuracy within 0.5 %
- Low-temperature compensation structure to counteract material shrinkage effect
- Wear-resistant surface treatment on valve internals

## OPTIONS & NOTES

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- NPS 1/2 size marked with asterisk — may indicate special or on-request availability
- NPS 24 size marked with asterisk — may indicate special or on-request availability
- Operator options listed as 'Manual, Pneumatic, Electric, etc...' — additional actuator types available on request