ARD-GT-002

Cast cryogenic gate valve

Product illustration. Appearance and dimensions depend on the selected configuration.

A large-bore gate range with an extended bonnet and flanged, butt-weld or RTJ connections.

Sizes and pressure ratings depend on construction, materials and configuration. Confirm the selected pressure-temperature rating with the quotation.

Selection	Specification
Size range	21/2-24 in
Pressure ratings	ASME Class 150-1500
Temperature	Down to -196°C
Connections	Butt weld (BW) · Flanged

Define your requirement

Specify medium, design pressure and temperature, nominal size, connection standard, operation, quantity and required inspection documentation.

View this product and request a quotation

This catalogue datasheet supports selection and enquiry. It is not a certified pressure-temperature curve, installation drawing or order-specific approval.

Technical specification

Parameter	Specification
Size range	21/2-24 in
Pressure ratings	ASME Class 150-1500
End connections	Butt weld (BW) · Flanged
Temperature range	Down to -196°C
Referenced design standards	BS 6364; ASME B16.34; B16.25 / B16.5
Referenced pressure / seat tests	API 598; BS 6364

End connections

Illustrated arrangement: Flanged ends on the pictured configuration.

Connection detail	Selection requirement
Published connection	Flanged, butt weld or RTJ
Referenced connection standards	BW: ASME B16.25; flanged: ASME B16.5 (reference reference).
Flange facing	RTJ = ring-type joint facing, not a separate pipe-connection family. Confirm RF / RTJ and gasket designation.
Weld selection	Specify pipe OD, wall thickness/schedule, material and weld preparation. SW and BW are different connections.
Flange selection	Specify nominal size, flange rating, facing, drilling and gasket. Do not infer these from the image alone.

Materials

Component	Material / option
Body	Cast Steel- ASTM A351-CF8(M)/CF3(M)
Bonnet	Cast Steel- ASTM A351-CF8(M)/CF3(M)
Seat	SOFT SEAT : PCTFE; metal SEAT : ASTM A276-304L(H.F)
Wedge	ASTM A276-304(L)(H.F) / 316(L)(H.F) or Equivalent
Stem	ASTM A276-316(L)
Gasket	SPIRAL WOUND GRAPHITE
Gland Packing	GRAPHITE

Configuration features

- Extended bonnet
- Gear operation

- Uni- or bidirectional options
- Cavity pressure-relief provision
- Fire-safe and antistatic design features

Selection notes

Sizes and pressure ratings depend on construction, materials and configuration. Confirm the selected pressure-temperature rating with the quotation.

Published series limits are not a size-by-pressure availability matrix. Materials, temperature capability, leakage class, testing and certification are confirmed for the selected configuration.

PN, ASME Class and safety-valve set pressure are separate values. Confirm allowable pressure versus temperature, material compatibility, oxygen cleaning, trapped-liquid relief and required certification for the selected assembly. Liquid hydrogen and helium service require a separate assessment.