ARD-GT-006

Hydraulic cryogenic gate valve

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

A rising-stem cryogenic gate package for full-open or shut-off duty in larger process lines. The extended bonnet separates the packing and hydraulic drive from the cold pressure body.

Series limits guide enquiry and are not verified availability or approved operating limits for every size, pressure and operator combination. Confirm the selected design and pressure-temperature rating.

Selection	Specification
Size range	NPS 2-42
Pressure ratings	ASME Class 150-2500
Temperature	Down to -196°C; upper limit to confirm
Connections	RF / RTJ flanged / butt weld (BW)
Medium	LNG / LPG; exact process medium to specify

Define your requirement

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

Project selection

Topic	Selection requirement
Hydraulic system	Specify working pressure, fluid, supply/return interfaces and the location of the power unit.
Motion and emergency duty	Confirm load, speed control, accumulator requirements, manual override and the required loss-of-pressure action.

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
Construction	OS&Y rising-stem gate; flexible-wedge selection
Operation	Hydraulic linear cylinder

End connections

Illustrated arrangement: two RF flanged line connections

Connection detail	Selection requirement
Connection options	RF / RTJ flanged / butt weld (BW)
Mating interface	Confirm end standard, facing or weld preparation, pipe dimensions and installation envelope.

Materials

Component	Material / option
Body and bonnet	Cryogenic stainless steel; selected grade to confirm
Trim, seats and seals	Selected material schedule to confirm

Configuration features

- Rising-stem isolation
- Extended bonnet
- Hydraulic linear cylinder

Selection notes

Series limits guide enquiry and are not verified availability or approved operating limits for every size, pressure and operator combination. Confirm the selected design and pressure-temperature rating.

The illustration does not include a hydraulic power unit. Accumulators, emergency energy storage and fail action are project selections.

Gate valves are selected for isolation; throttling and prolonged partial opening require a separate duty assessment.

Confirm pressure-temperature limits, material compatibility, oxygen cleaning, trapped-liquid relief and certification for the selected assembly. PN, ASME Class and relief set pressure are separate values.