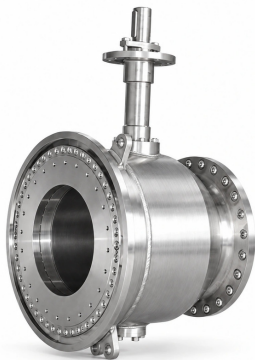


ARD-TR-005

Large-bore cryogenic emergency release valve



A stainless steel emergency-disengagement valve series for large cryogenic transfer lines. The DN150-400 range uses PFA sealing and is illustrated as a bare-stem valve for a separately specified operating arrangement.

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

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

Selection	Specification
Size range	DN 150-400
Pressure ratings	PN16 / PN20 (1.6 / 2.0 MPa nominal)
Temperature	-196 to +80°C
Connections	Flanged / weld ends
Medium	LNG / NG, LOX / O2, LN2 / N2, LAr / Ar

Define your requirement

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

Project selection

Topic	Selection requirement
Transfer-system definition	Specify medium, flow, line size, design conditions and the required emergency isolation or release sequence.
Actuation and mounting	Confirm actuator type, mounting, required torque and fail action. The illustrated valve has no actuator.

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
Inspection references	GB/T 12237; GB/T 24925
Operating arrangement	Bare shaft shown; operating and release package to specify

End connections

Illustrated arrangement: a large inline cylindrical body with annular flanged ends, an open bore and a bare extended shaft with an upper mounting flange

Connection detail	Selection requirement
Connection options	Flanged / weld ends
Interface selection	Specify the end standard, nominal size, pipe dimensions and required mating interface.
Flange selection	Confirm pressure designation, facing, drilling and gasket; no flange standard is established by the photograph.
Weld alternative	Welded connections are listed as an alternative. Confirm BW/SW preparation and the selected outline drawing.

Materials

Component	Material / option
Body, bonnet, stem and ball	Stainless steel; exact grade to specify
Seal	PFA

Configuration features

- Large-bore DN150-400 transfer-line configuration
- Stainless steel wetted construction with PFA sealing
- Extended shaft and upper mounting interface in the illustrated arrangement

Selection notes

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

The reference establishes a valve series, not a complete certified emergency-release system. Release logic, drive, isolation sequence and mating equipment must be specified for the selected assembly.

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.