

ARD-VJ-003

Vacuum-jacketed cryogenic lift check valve



An insulated lift-check configuration for DN25-50 cryogenic pipework, combining a vacuum-jacketed body arrangement with automatic non-return operation and PTFE sealing.

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 25-50
Pressure ratings	PN40 (4.0 MPa nominal)
Temperature	-196 to +80°C
Connections	Weld ends - preparation to specify
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
Installation	Confirm permitted mounting orientation and service clearance above the bolted jacket.
Insulation system	Specify the process line and jacket dimensions and required vacuum-system 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
Function	Automatic lift-type non-return
Flow direction	Under the disc to above the disc
Inspection reference	GB/T 24925

End connections

Illustrated arrangement: two opposed short end stubs beneath a tall cylindrical insulating jacket and bolted cap; no handwheel or actuator

Connection detail	Selection requirement
Connection options	Weld ends - preparation to specify
Interface selection	Specify the end standard, nominal size, pipe dimensions and required mating interface.
Process welds	Confirm end preparation, pipe OD, wall thickness and the process-pipe material. The published designation is welded.
Vacuum-jacket interface	Confirm jacket dimensions, vacuum boundary and integration with the insulated line.

Materials

Component	Material / option
Body, bonnet and disc	Stainless steel; exact grade to specify
Seal	PTFE

Configuration features

- Vacuum-jacketed lift-check construction
- PTFE sealing
- Automatic operation without an external drive

Selection notes

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

Cracking pressure, allowable differential pressure, installation orientation and vacuum performance require the selected assembly data; no values are inferred from the image.

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.