

ARD-VJ-004

Vacuum-jacketed liquid-hydrogen lift check valve



A dedicated liquid-hydrogen non-return assembly with an insulated body and a guided, spring-return lift closure. The passive valve is selected with the flow regime and installation orientation.

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.

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

Selection	Specification
Size range	NPS 1/2-6 / DN 15-150
Pressure ratings	ASME Class 150-600
Temperature	-253 to +120°C
Connections	Socket weld (SW) / butt weld (BW) / RF flanged
Medium	LH2 / liquid hydrogen

Define your requirement

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

Project selection

Topic	Selection requirement
Non-return duty	Specify normal/minimum flow, allowable reverse flow, cracking pressure and mounting orientation.
Insulated-line interface	Confirm process pipe, jacket boundary, vacuum performance and service clearance.

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	Vacuum-jacketed guided lift disc; spring return
Operation	Automatic non-return

End connections

Illustrated arrangement: two RF flanged line connections

Connection detail	Selection requirement
Connection options	Socket weld (SW) / butt weld (BW) / RF flanged
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

- Dedicated LH2 non-return duty
- Guided lift closure
- Vacuum-jacketed body

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.

No cracking-pressure value, pressure-loss coefficient or transient closure guarantee is inferred from the illustration.

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.