

ARD-CK-008

Cryogenic axial-flow check valve



A spring-assisted axial-flow non-return configuration for large cryogenic lines. The guided closure moves along the flow axis, with a streamlined inline body and no external operator.

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 2-42
Pressure ratings	ASME Class 150-900
Temperature	-196 to +150°C
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
Transient duty	Provide flow range, fluid state, pump rundown and permissible reverse-flow conditions.
Installation	Confirm orientation, cracking pressure, pressure loss and the approved outline.

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	Axial guided closure
Operation	Automatic non-return

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

- Axial disc movement
- Streamlined inline pressure body
- Spring-assisted return selected for the duty

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.

Closing response and pressure-surge performance require a system assessment; no guaranteed non-slam behaviour or pressure-loss value is 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.