

ARD-CK-009

Cryogenic piston check valve



An industrial piston-check selection for cryogenic non-return duty, with separate soft-seat and metal-seat size limits. The piston-type closure is enclosed beneath a service cap and operates without an external drive.

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	Up to NPS 16; seat/class dependent
Pressure ratings	ASME Class 150-2500; seat dependent
Temperature	Cryogenic design temperature to specify
Connections	End connections 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
Check-valve sizing	Specify normal/minimum flow, fluid state, differential pressure and permitted mounting orientation.
Design confirmation	Confirm minimum size, material, connection and cryogenic temperature for the selected assembly.

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	Piston-type non-return; soft or metal seat
Operation	Automatic non-return
Metal-seat maxima	Class150: NPS16; Class300: NPS12; Class600-2500: NPS10
Soft-seat maxima	Class150: NPS12; Class300: NPS10; Class600: NPS4

End connections

Illustrated arrangement: a flanged inline piston-check body with a bolted cap

Connection detail	Selection requirement
Connection options	End connections to specify
Mating interface	Confirm end standard, facing or weld preparation, pipe dimensions and installation envelope.
Configuration selection	Flanged ends illustrate one requested arrangement; the selected connection is not established by the range table.

Materials

Component	Material / option
Body and cap	Material grade to specify
Piston and seat	Soft-seat or metal-seat design to select

Configuration features

- Piston closure
- Seat-specific pressure and size selection
- Bolted-cap arrangement illustrated

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.

Published numbers are upper family limits by seat and Class; a minimum size and a complete size-by-pressure matrix are not established.

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.