

ARD-BV-017

Pneumatic top-entry cryogenic floating ball valve



A compact top-entry floating-ball configuration for cryogenic gas-system isolation. The service-cover architecture is combined with pneumatic operation and a selected control interface.

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 1/2-3
Pressure ratings	ASME Class 150-1500
Temperature	-196 to +80°C
Connections	RF 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
Air and controls	Specify supply pressure, air quality, control signal, solenoid and position indication.
Actuator sizing	Confirm breakaway and running load at maximum differential pressure, closing time and required fail action.

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	Top-entry floating ball; extended bonnet
Operation	Pneumatic quarter-turn actuator

End connections

Illustrated arrangement: two RF flanged line connections

Connection detail	Selection requirement
Connection options	RF flanged / butt weld (BW)
Mating interface	Confirm end standard, facing or weld preparation, pipe dimensions and installation envelope.

Materials

Component	Material / option
Body	Stainless steel; SS316 / CF8M options to select
Seats and packing	Low-temperature seal system to specify

Configuration features

- Floating-ball closure
- Top-entry service cover
- Extended stem with pneumatic operation

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.

The NPS span is used because a published DN equivalent is inconsistent. Request the exact bore and connection dimensions.

Air-operated does not establish spring return, fail-close action or a SIL-rated shutdown 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.