ARD-BV-013

Pneumatic top-entry cryogenic trunnion ball valve

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

A top-entry trunnion package for cryogenic isolation where access through a service cover is part of the maintenance plan. Remote air-operated isolation with the drive mounted above the cryogenic extension.

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.

Selection	Specification
Size range	DN 50-600 / NPS 2-24
Pressure ratings	ASME Class 150-900
Temperature	Down to -196°C; upper limit to confirm
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
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 body with service cover; trunnion-supported ball
Operation	Pneumatic quarter-turn actuator

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

- Top-entry service-cover architecture
- Extended stem keeps the drive above the cold zone
- Pneumatic operating package

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.

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

Specify bore, differential pressure, seat arrangement, trapped-liquid relief and required test documentation.

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.