ARD-BV-012

Hydraulic side-entry cryogenic trunnion ball valve

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

A side-entry trunnion package for large cryogenic isolation lines, with split body joints and a supported ball. Hydraulic isolation for projects requiring a defined high-load drive and a separately selected hydraulic supply.

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
Hydraulic system	Specify working pressure, fluid, supply/return interfaces and the location of the power unit.
Motion and emergency duty	Confirm load, speed control, accumulator requirements, manual override and the required loss-of-pressure 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	Side-entry split body; trunnion-supported ball
Operation	Hydraulic 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

- Side-entry body joints
- Extended stem keeps the drive above the cold zone
- Hydraulic 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.

The illustration does not include a hydraulic power unit. Accumulators, emergency energy storage and fail action are project selections.

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.