

ARD-BV-020

Liquid-hydrogen ball valve



A liquid-hydrogen ball-valve enquiry reference for specialized isolation duty. The illustrated extended-stem quarter-turn arrangement is developed around a selected hydrogen-compatible material, seat and pressure-relief design.

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	Nominal size to specify
Pressure ratings	Pressure rating to specify
Temperature	LH2 service down to -253°C; selected limits to confirm
Connections	End connections to specify
Medium	LH2 / liquid hydrogen

Define your requirement

Specify medium, design pressure and temperature, nominal size, connection standard, operation, quantity and required inspection documentation.

Project selection

Topic	Selection requirement
Hydrogen design	Provide pressure, temperature, fluid state, leakage requirement, cleanliness and qualification documents.
Mechanical definition	Confirm bore, body construction, seat arrangement, operator and end connections.

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	LH2 ball-valve family; arrangement to select
Operation	Operator to select; manual gearbox illustrated

End connections

Illustrated arrangement: a flanged ball body, long cryogenic extension and manual gearbox

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	The LH2 family statement does not define a common end standard; specify the required interface.

Materials

Component	Material / option
Pressure parts and stem	Hydrogen-compatible grades to select
Seats, seals and packing	Qualified LH2 material system to select

Configuration features

- Dedicated LH2 ball-valve selection
- Extended upper assembly illustrated
- Seat and cavity-relief design specified 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.

Capability for the LH2 ball family is documented, but no universal DN, Class/PN or material schedule is established. PN40 from a globe or safety valve must not be transferred to this product.

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.